

# Reportable Diseases in Kansas

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## 1995 Summary



Kansas Department of Health and Environment • Office of Epidemiologic Services



# **REPORTABLE DISEASES**

**IN**

# **KANSAS**

## **1995 SUMMARY**



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August, 1996

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## INTRODUCTION

### Purpose and format of this report

This is the Fourth annual summary of reportable diseases by the Kansas Department of Health and Environment. The purpose of the report is to provide useful information on notifiable diseases in Kansas for health care providers, public health workers and policy makers.

The report is divided into two sections. Section I presents summaries of 34 diseases or conditions of public health importance. Data are presented mainly by graphs and statistics. Rates have been calculated to adjust for population size allowing for more meaningful interpretation of the data. Rates by demographic characteristics and proportional changes from last year are reported when there were more than 50 cases of a disease reported in the state. If the total number of cases in the state was < 4, then no demographic information is presented (to ensure confidentiality of the patients). Whenever possible, information on disease trends for the United States has been included for comparison with Kansas trends.

Six additional diseases have been added to this year's report: amebiasis, foodborne botulism, primary encephalitis, hepatitis C/non-A, non-B, influenza and rubella. Disease incidence for urban and rural areas has also been included for most diseases. Urban counties were defined as counties with populations  $\geq 100,000$ , and represent the three largest metropolitan areas in the state [Kansas City (Johnson and Wyandotte Counties), Wichita (Sedgwick County), and

Topeka (Shawnee County)], which account for 44% of the population. The remaining 101 counties in the state are classified as rural for the purposes of this report.

Section II provides the list of reportable diseases during 1995, a summary of cases of reportable diseases by year for 1983-1995, and a summary of cases by county for 1995. Also included are a list of county abbreviations for use with Table 2, a map of Kansas with county names, and a list of publications on disease control from KDHE in 1995.

### Disease reporting in Kansas

Selected diseases are reportable by law in Kansas by health care providers, laboratories and hospitals (Section II, Table 1). Reports are usually first sent to the local health department. The local health department is responsible for providing basic public health interventions such as providing immune globulin to a household contact of a person with hepatitis A or treating sexual contacts of a person with gonorrhea.

Reports are then sent to the Bureau of Disease Control in the Kansas Department of Health and Environment for review. After reports have been entered into the National Electronic Telecommunications System for Surveillance (NETSS), weekly summaries are forwarded to the Centers for Disease Control and Prevention (CDC) for inclusion in the Morbidity and Mortality Weekly Report. The final step in the surveillance system occurs when CDC sends selected data to the World Health Organization.

Local, state, national and international

health agencies that collect surveillance data are responsible for analyzing and interpreting the data. The information is used for planning, implementing and evaluating public health programs. Surveillance data can be used to determine the need for public health action and to assess the effectiveness of programs.

### **Important disease trends in 1995**

The number of vaccine-preventable diseases remained low with no cases of polio or diphtheria reported. The incidence of haemophilus influenzae meningitis continued to decline. Measles, mumps and rubella remained at low levels. Pertussis and hepatitis B continued to be a problem.

Case counts for three sexually transmitted diseases (chlamydia, gonorrhea and syphilis) declined during 1995. Chlamydia continues to be the most commonly reported sexually transmitted diseases (STD), with 96 of 105 counties reporting at least one case during the year. Despite an increased number of screening sites and persons screened, chlamydia declined by 17% and gonorrhea by 24% compared to 1994. Both infections are leading causes of infertility, pelvic inflammatory disease and ectopic pregnancy. The number of reported primary and secondary syphilis cases declined by 37% compared to last year, marking the third consecutive yearly decrease. Two cases of congenital syphilis infections were reported for the year.

The number of reported Kansas AIDS cases in 1995 (286) showed an increase of 26% over those reported in 1994 (227). This increase was largely due to expanded active surveillance.

Tuberculosis (TB) remained a problem in 1995. The number of cases increased by 6% from 1994. The case rate increased from 3.4 per 100,000 to 3.5 per 100,000, but the incidence rate of TB in Kansas still remained well below the national average. Health departments often struggled to provide the services required by the increased number of patients.

Enteric infections (salmonellosis, shigellosis and giardiasis) continued to be reported in large numbers. Although not yet reportable by law in 1995, reports of *E. coli* O157:H7 continued to increase. Six outbreaks of foodborne illness were reported during the year.

### **Interpreting the data**

When interpreting the data in this report it is important to remember that disease reporting is incomplete and often varies by disease. For example, reporting of AIDS cases is very good whereas reporting of chickenpox is poor. Absolute numbers are less meaningful than trends when interpreting the data. It is also important to note that since 59% (62/105) of counties in Kansas have populations less than 10,000, it is possible to have high rates of disease in these counties even if only one case is reported.

### **Acknowledgments**

We would like to thank all physicians, nurses, hospitals, laboratorians, county health department staff and others who participated in reportable disease surveillance during 1995. We would also like to acknowledge the Bureau of Disease Control staff for their support.

## **SECTION I**

**DISEASE**

**SUMMARIES**



## AIDS

---

Number of cases - 286

% change from 1994 - plus 26%

Kansas rate - 11.2 per 100,000

U.S. rate (1994) - 30.1 per 100,000

Age of case-patients

Median - 35 years

Range - <1 to 84 years

Rate by sex

Female - 2.8 per 100,000

Male - 21.6 per 100,000

Rate by race

White - 9.7 per 100,000

Black - 34.9 per 100,000

Asian - 18.9 per 100,000

Am. Indian - 18.2 per 100,000

Rate by ethnicity

Hispanic - 9.6 per 100,000

Non Hispanic - 11.6 per 100,000

Rate by geographic area

Urban - 19.3 per 100,000

Rural - 6.6 per 100,000

Cases by transmission categories

Men who have sex

with men (MSM) 144 (50%)

Injecting drug

use (IDU) 25 ( 9%)

MSM & IDU 47 (16%)

Blood products 7 ( 2%)

Heterosexual 10 ( 4%)

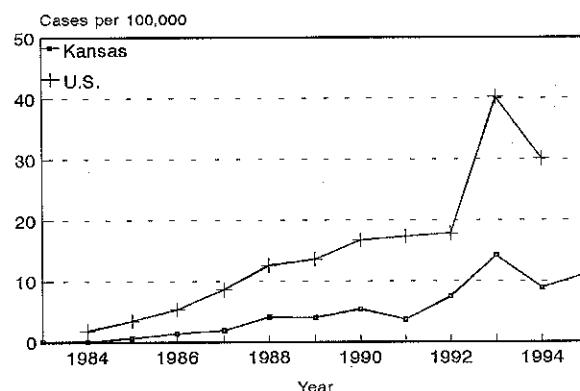
Mother with/at risk

for HIV infection 3 ( 1%)

Risk not reported/

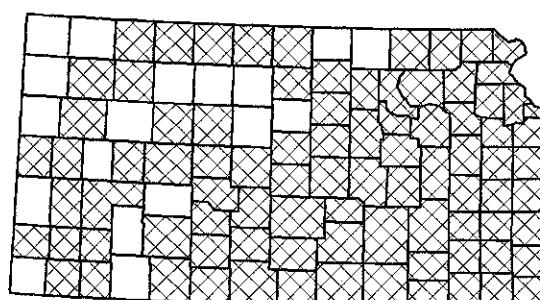
Other 50 (18%)

AIDS rate by year of report  
Kansas, 1983-1995



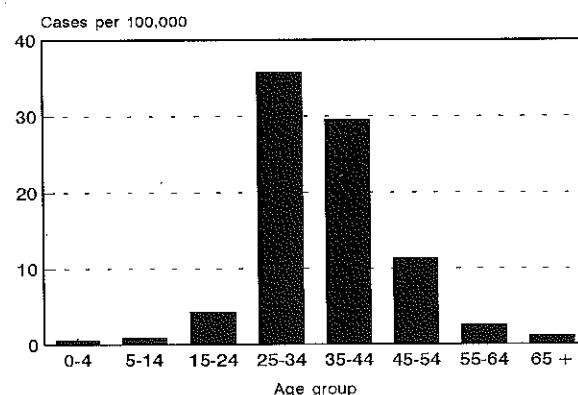
Comment: The introduction of a new definition accounts for the large number of cases in 1993.

Counties affected by HIV/AIDS  
Kansas, 1981-1995



Shaded counties have reported or  
treated at least one person with HIV or AIDS

AIDS rate by age group  
Kansas, 1995



## Amebiasis

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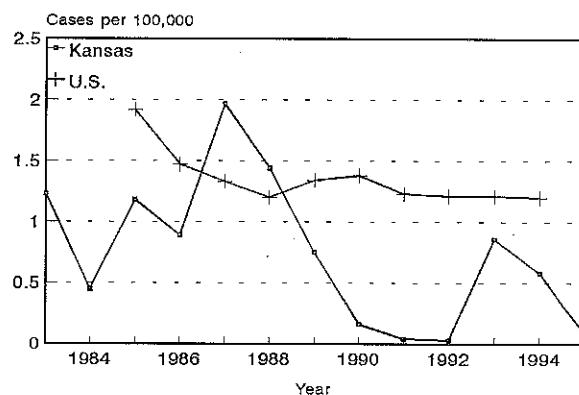
Number of cases - 2

Kansas rate - 0.1 per 100,000

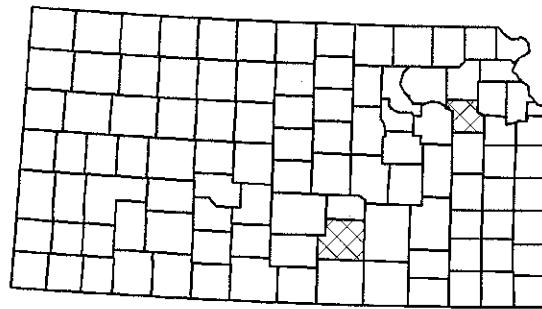
U.S. rate (1994) - 1.2 per 100,000

Median age of cases - 30 years

Amebiasis rate by year of report  
Kansas, 1983-1995



Amebiasis cases by county  
Kansas, 1995



Cases       0       1

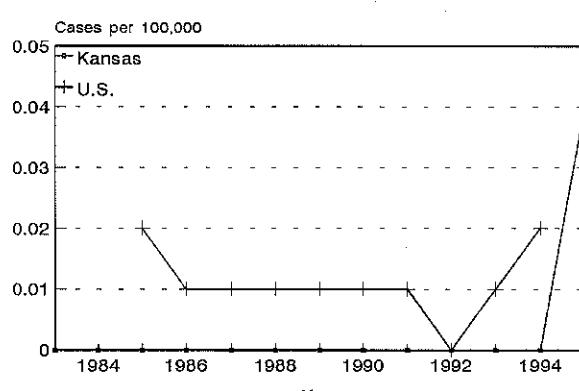
## Botulism, Foodborne

Number of cases - 1

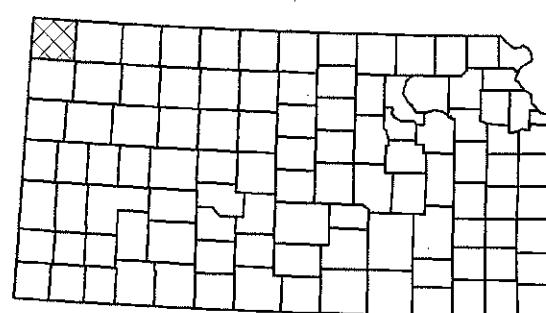
Kansas rate - < 0.1 per 100,000

U.S. rate (1994) - < 0.1 per 100,000

Foodborne Botulism rate by year of report  
Kansas, 1983-1995



Foodborne Botulism cases by county  
Kansas, 1995



Cases       0       1

## Campylobacteriosis

---

Number of cases - 238  
% change from 1994 - minus 4%

Kansas rate - 9.3 per 100,000  
U.S. rate (1994) - not available

### Age of case-patients

Median - 30 years  
Range - < 1 to 89 years

### Rate by sex

Female - 8.7 per 100,000  
Male - 9.9 per 100,000

### Rate by race

White - 7.7 per 100,000  
Black - 6.3 per 100,000  
Asian - 9.5 per 100,000  
Am. Indian - 4.6 per 100,000

### Rate by ethnicity

Hispanic - 4.3 per 100,000  
Non Hispanic - 6.4 per 100,000

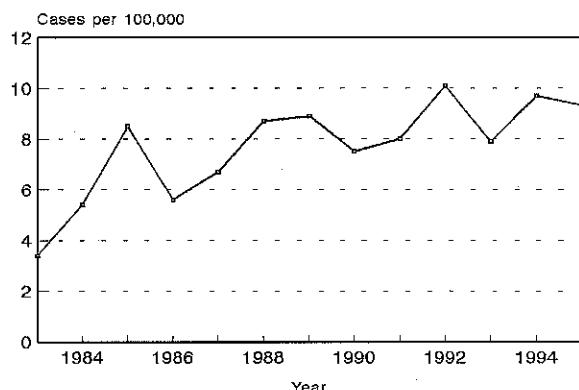
### Rate by geographic area

Urban - 12.9 per 100,000  
Rural - 6.5 per 100,000

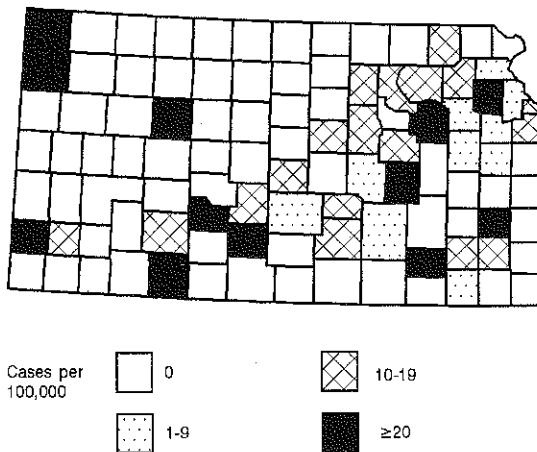
### Species identified by state laboratory

<i>C. jejuni</i>	130 (98%)
<i>C. coli</i>	2 ( 1%)
<i>C. upsaliensis</i>	1 ( 1%)

Campylobacteriosis rate by year  
Kansas, 1983-1995



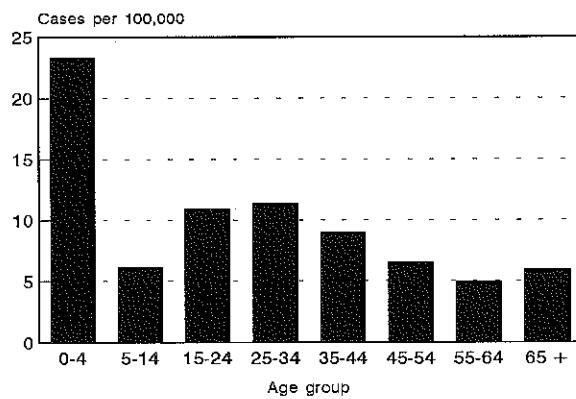
Campylobacteriosis rate by county  
Kansas, 1995



Cases per 100,000

- 0
- ▨ 10-19
- ▩ 1-9
- ≥20

Campylobacteriosis rate by age group  
Kansas, 1995



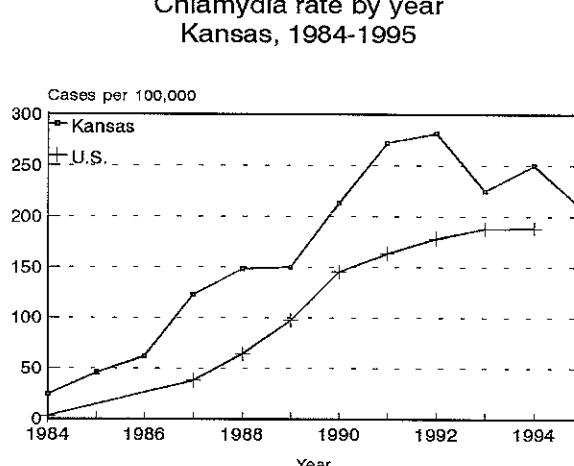
## Chlamydia

Number of cases - 5,315  
% change from 1994 - minus 17%

Kansas rate - 208.1 per 100,000  
U.S. rate (1994) - 188.4 per 100,000

### Age of case-patients

Median - 20 years  
Range - 1 to 61 years

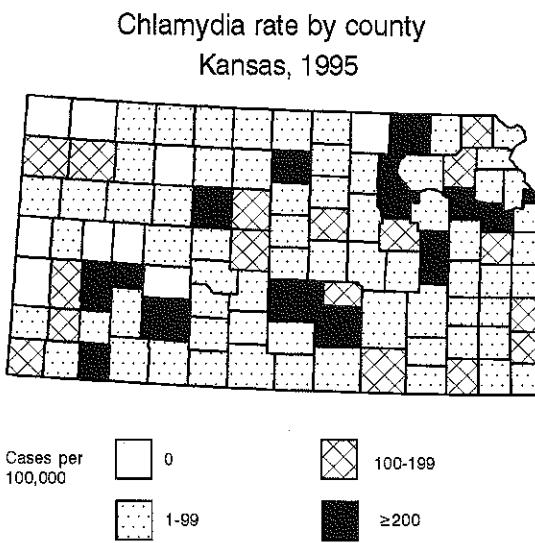


### Rate by sex

Female - 343.1 per 100,000  
Male - 68.5 per 100,000

### Rate by race

White - 109.6 per 100,000  
Black - 1,251.8 per 100,000  
Asian - 315.0 per 100,000  
Am. Indian - 45.5 per 100,000

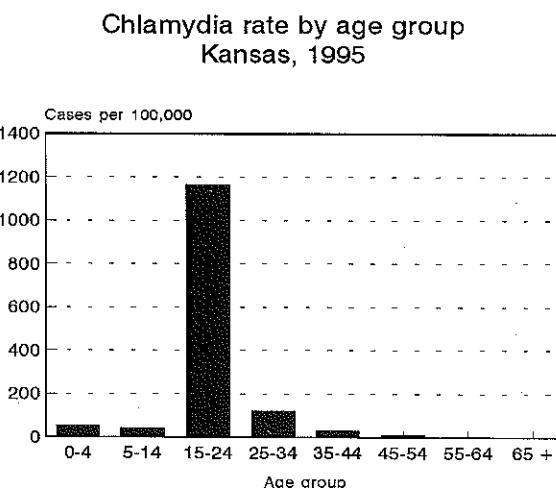


### Rate by ethnicity

Hispanic - 453.7 per 100,000  
Non Hispanic - 182.3 per 100,000

### Rate by geographic area

Urban - 276.0 per 100,000  
Rural - 154.0 per 100,000



## *E. coli* O157:H7

Number of cases - 29

Kansas rate - 1.1 per 100,000

U.S. rate (1994) - 0.8 per 100,000

Age of case-patients

Median - 15 years

Range - 1 to 91 years

Cases by sex

Female - 14

Male - 15

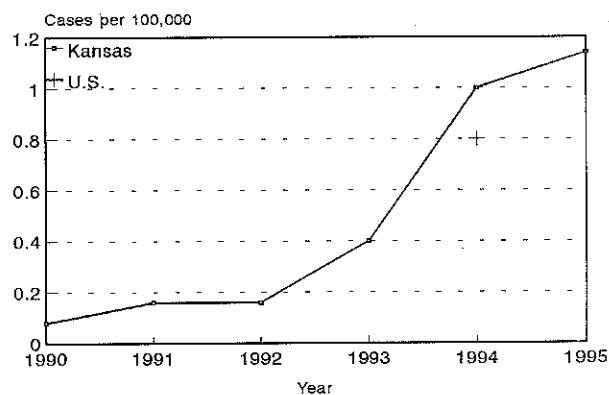
Cases by geographic area

Urban - 19

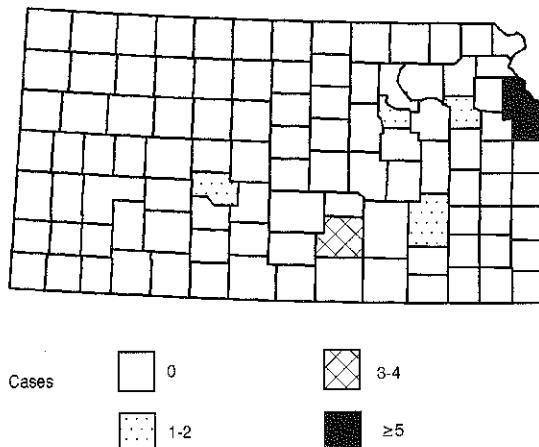
Rural - 10

Comment: *E. Coli* O157:H7 infection became a reportable condition in Kansas in 1996.

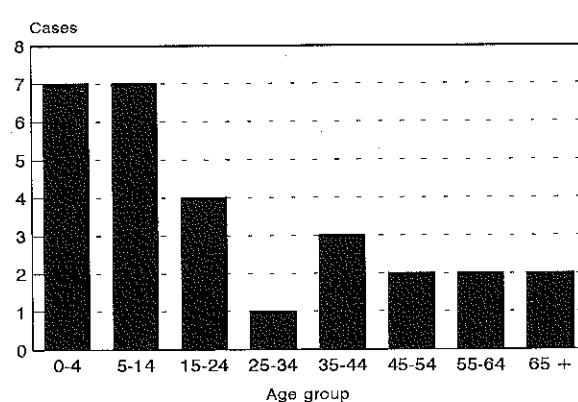
*E. coli* O157:H7 rate by year  
Kansas, 1983-1995



*E.Coli* O157:H7 cases by county  
Kansas, 1995



*E. coli* O157:H7 cases by age group  
Kansas, 1995



## Arboviral Encephalitis

Human arbovirus cases, 1964-1995

	Kansas		U.S.	
	SLE	WEE	SLE	WEE
1964	2	2	470	64
1965	1	10	58	172
1966	20	6	325	47
1967	3	4	15	19
1968	3	0	35	17
1969	1	0	16	21
1970	11	1	15	4
1971	28	2	57	11
1972	0	0	13	8
1973	0	0	5	4
1974	2	0	72	2
1975	35	0	1815	132
1976	12	0	379	1
1977	0	1	161	41
1978	0	0	26	3
1979	1	0	32	3
1980	1	0	167	0
1981	3	2	15	19
1982	0	0	34	9
1983	0	0	21	7
1984	0	0	33	2
1985	0	0	21	1
1986	0	0	43	7
1987	2	0	17	41
1988	0	1	4	1
1989	0	0	33	0
1990	0	0	247	0
1991	0	0	78	1
1992	0	0	15	0
1993	0	0	16	0
1994	0	0	19	2
1995	0	0	25	0
Total	125	36	4282	639

Comment: Following extensive flooding in the midwest, mosquito trapping was conducted from June through October 1994 and June through August 1995 in seven northeast Kansas counties: Doniphan, Douglas, Jefferson, Johnson, Riley, Shawnee, and Wyandotte.

In 1995, each of these counties served as individual trap regions with the exception of Wyandotte and Johnson, which were combined into one region. Six sites were selected within each region resulting in 36 trap sites throughout the seven counties. Each site was sampled once per week with two CO<sub>2</sub>-baited, CDC light traps and one gravid trap such that 108 traps were set each week. None of the 947 pools of *Culex pipiens*, consisting of no more than 25 mosquitoes each, tested positive for Saint Louis encephalitis (SLE). Testing for Western equine encephalitis (WEE) was not done.

Special thanks to Mr. Franz Birzer, Kansas State University, Dept. of Entomology, Manhattan, KS for the information provided.

### Mosquitoes trapped by month Kansas, 1995

	Month	Number of trap days	Number Culex pipiens	Number Culex tarsalis
1995	June	132	8099	154
	July	132	8310	156
	August	132	2150	11

## Primary Encephalitis

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Number of cases - 11

Kansas rate - 0.4 per 100,000

U.S. rate (1994) - 0.3 per 100,000

Age of case-patients

Median - 21 years

Range - 8 to 61 years

Cases by sex

Female - 3

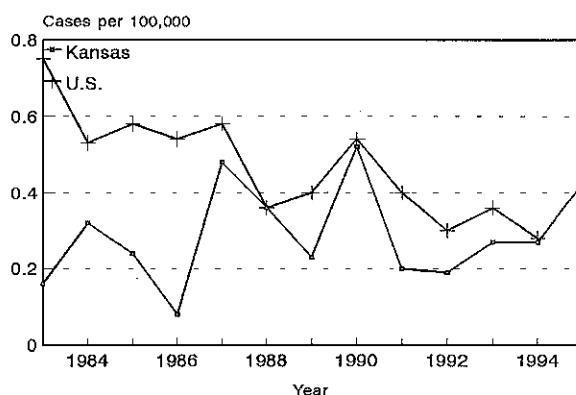
Male - 8

Cases by geographic area

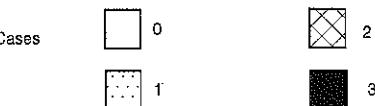
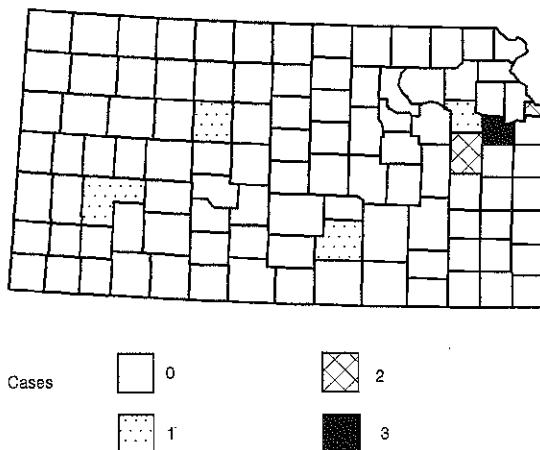
Urban - 4

Rural - 7

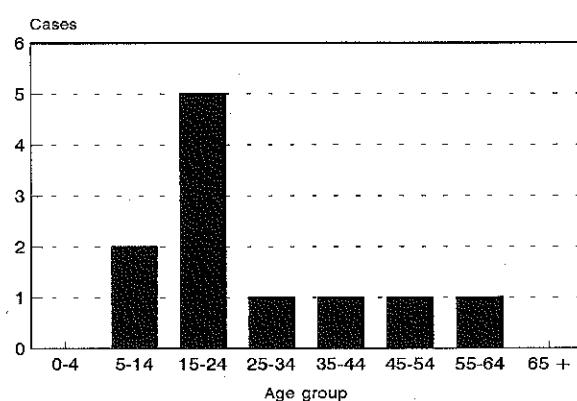
Primary Encephalitis rate by year  
Kansas, 1983-1995



Primary Encephalitis cases by county  
Kansas, 1995



Primary Encephalitis cases by age group  
Kansas, 1995



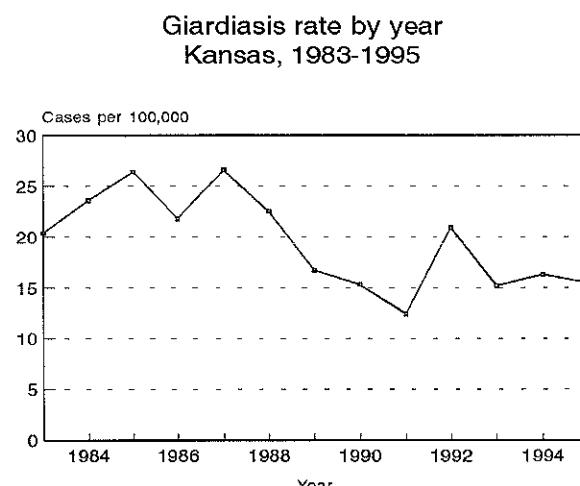
## Giardiasis

Number of cases - 395

% change from 1994 - minus 5 %

Kansas rate - 15.5 per 100,000

U.S. rate (1994) - not available



### Age of case-patients

Median - 18 years

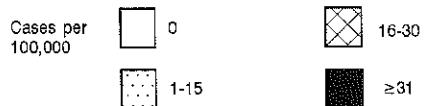
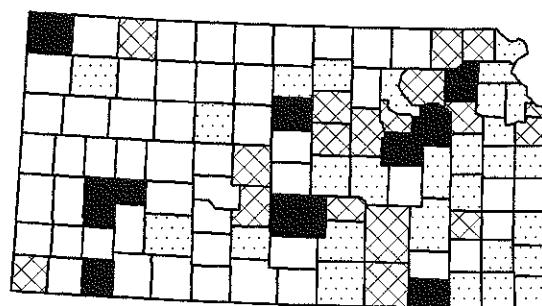
Range - < 1 to 90 years

### Rate by sex

Female - 15.4 per 100,000

Male - 15.05 per 100,000

Giardiasis rate by county  
Kansas, 1995



### Rate by race

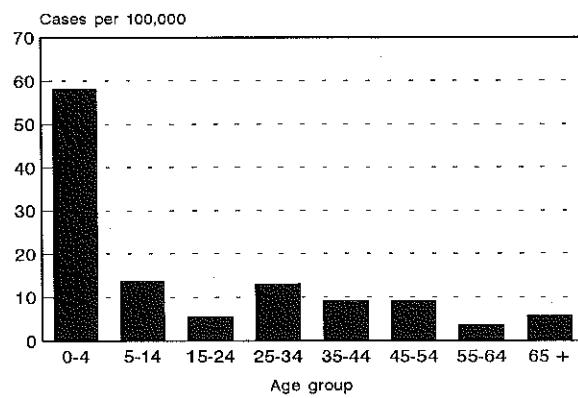
White - 9.4 per 100,000

Black - 7.0 per 100,000

Asian - 31.5 per 100,000

Am. Indian - 18.2 per 100,000

Giardiasis rate by age group  
Kansas, 1995



### Rate by ethnicity

Hispanic - 15.0 per 100,000

Non Hispanic - 8.1 per 100,000

### Rate by geographic area

Urban - 16.9 per 100,000

Rural - 14.4 per 100,000

## Gonorrhea

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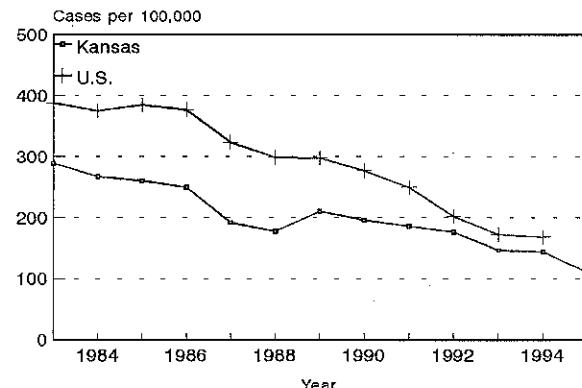
Number of cases - 2,797

% change from 1994 - minus 24%

Kansas rate - 109.5 per 100,000

U.S. rate (1994) - 168.4 per 100,000

Gonorrhea rate by year  
Kansas, 1983-1995



### Age of case-patients

Median - 21 years

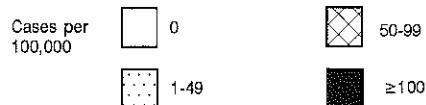
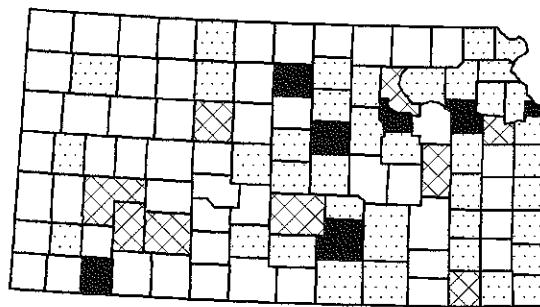
Range - 1 to 64 years

### Rate by sex

Female - 117.8 per 100,000

Male - 101.0 per 100,000

Gonorrhea rate by county  
Kansas, 1995



### Rate by race

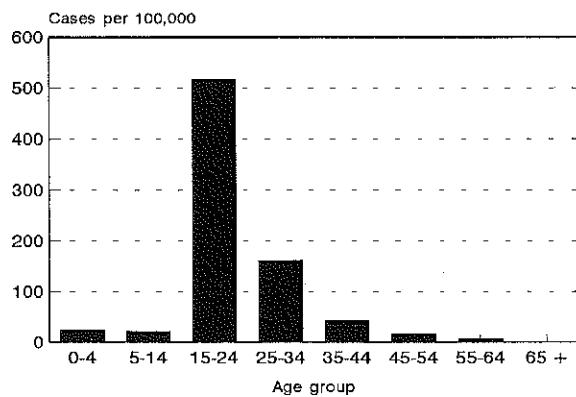
White - 28.3 per 100,000

Black - 1,273.4 per 100,000

Asian - 94.5 per 100,000

Am. Indian - 13.7 per 100,000

Gonorrhea rate by age group  
Kansas, 1995



### Rate by ethnicity

Hispanic - 153.7 per 100,000

Non Hispanic - 104.3 per 100,000

### Rate by geographic area

Urban - 184.0 per 100,000

Rural - 50.2 per 100,000

## Hepatitis A

Number of cases - 162  
% change from 1994 - plus 46%  
  
Kansas rate - 6.3 per 100,000  
U.S. rate (1994) - 10.3 per 100,000

### Age of case-patients

Median - 27 years  
Range - 2 to 90 years

### Rate by sex

Female - 5.8 per 100,000  
Male - 6.9 per 100,000

### Rate by race

White - 6.5 per 100,000  
Black - 2.1 per 100,000  
Asian - 9.5 per 100,000  
Am. Indian - 4.6 per 100,000

### Rate by ethnicity

Hispanic - 17.1 per 100,000  
Non Hispanic - 5.0 per 100,000

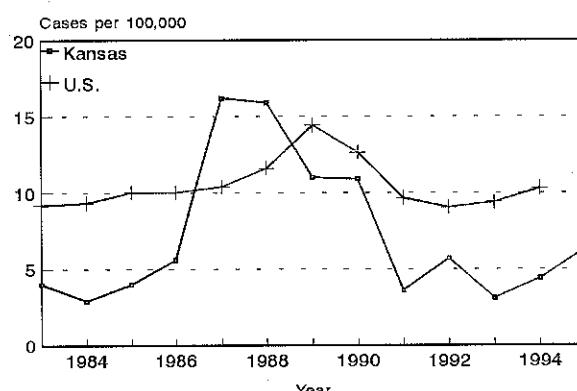
### Rate by geographic area

Urban - 5.8 per 100,000  
Rural - 6.8 per 100,000

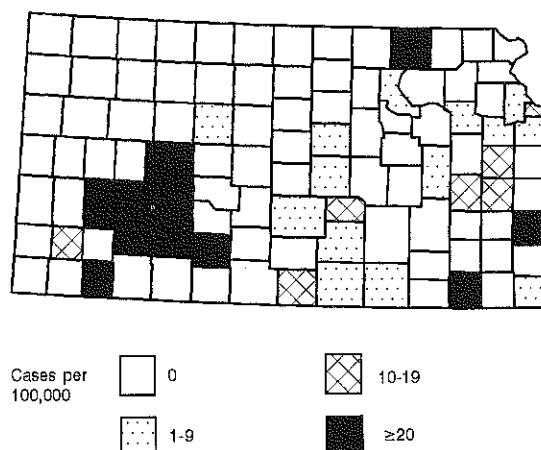
### Risk factors: (during 2-6 weeks prior to illness)

Contact of hepatitis A case	59	(36%)
Foreign travel	5	( 3%)

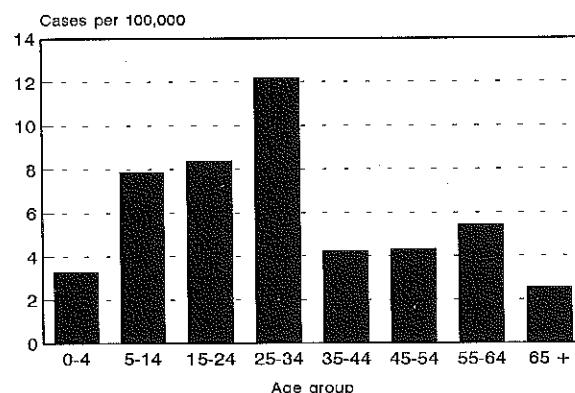
Hepatitis A rate by year  
Kansas, 1983-1995



Hepatitis A rate by county  
Kansas, 1995



Hepatitis A rate by age group  
Kansas, 1995



## Hepatitis B

Number of cases - 53  
 % change from 1994 - plus 71%  
 Kansas rate - 2.1 per 100,000  
 U.S. rate (1994) - 4.8 per 100,000

Age of case-patients  
 Median - 35 years  
 Range - 15 to 99 years

Rate by sex  
 Female - 1.7 per 100,000  
 Male - 2.5 per 100,000

Rate by race  
 White - 1.9 per 100,000  
 Black - 4.9 per 100,000  
 Asian - 12.6 per 100,000  
 Am. Indian - no case reported

Rate by ethnicity  
 Hispanic - 4.3 per 100,000  
 Non Hispanic - 2.1 per 100,000

Rate by geographic area  
 Urban - 1.9 per 100,000  
 Rural - 0.6 per 100,000

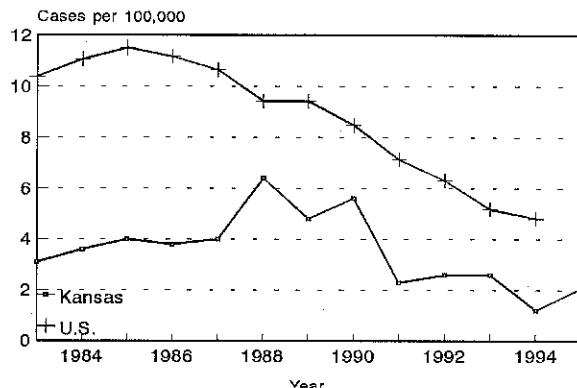
Cases who had received 3 doses of the hepatitis B vaccine 1 (2%)

Risk factors  
 (6 weeks - 6 months prior to illness)

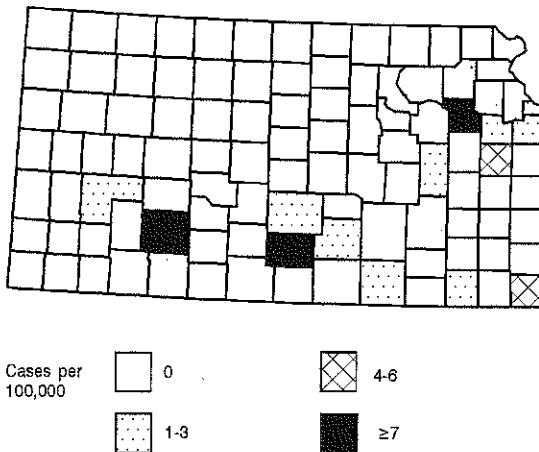
> 2 sexual partners	3	( 7%)
Contact of hepatitis B case	5	( 9%)
Tattoo	5	( 9%)
Injecting drug use	5	( 9%)

Comment: Only acute cases are reported.

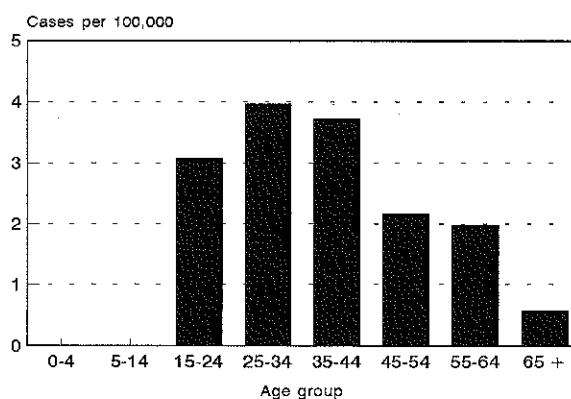
Hepatitis B rate by year  
 Kansas, 1983-1995



Hepatitis B rate by county  
 Kansas, 1995



Hepatitis B rate by age group  
 Kansas, 1995



## Hepatitis C/non-A, non-B

---

Number of cases - 18

Kansas rate - 0.7 per 100,000

U.S. rate (1994) - 1.8 per 100,000

Age of case-patients

Median - 40 years

Range - 26 to 87 years

Cases by sex

Female - 11

Male - 7

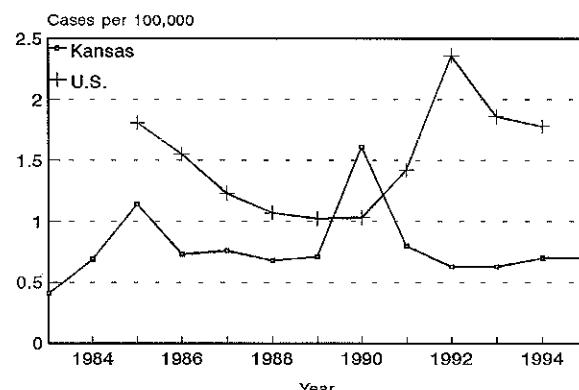
Cases by geographic area

Urban - 5

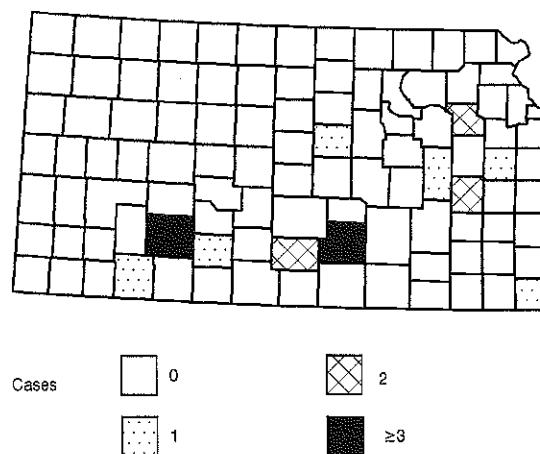
Rural - 13

Comment: Only acute cases are reported.

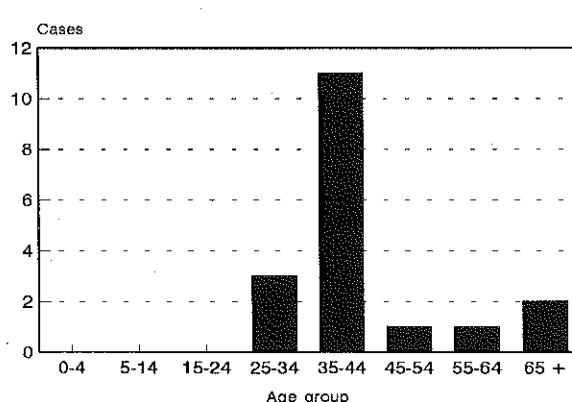
Hepatitis C/non-A, non-B rate by year of report  
Kansas, 1983-1995



Hepatitis C/non-A, non-B cases by county  
Kansas, 1995



Hepatitis C/non-A, non-B cases by age group  
Kansas, 1995



## Influenza

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Specimen submissions\* for influenza

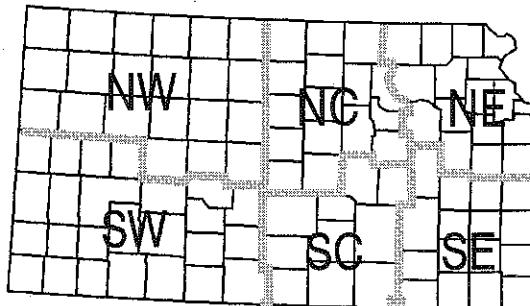
Influenza submissions	70
Unsatisfactory	2
Herpes simplex virus (+)	1
Parainfluenza 1 (+)	1
Analyzed for influenza	66
Negative	24
Positive (influenza A)	42
Typings	
H1N1	7
H3N2	2

Age group	Specimens	Pos	% Pos
< 12	27	22	(81%)
12 - 19	15	9	(60%)
20 - 39	13	7	(54%)
> 40	11	4	(36%)
Total	66	42	(64%)

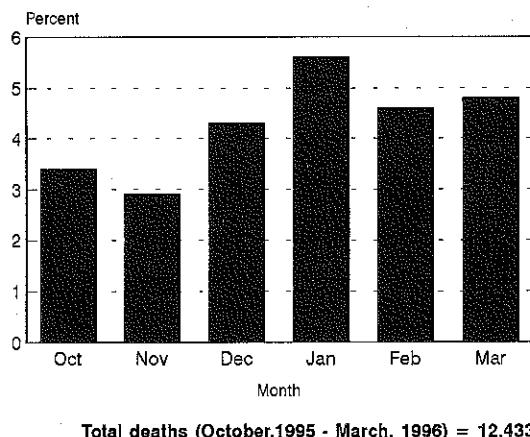
Geographic Area	Total	Pos
NW	9	5
NC	16	13
NE	22	12
SW	0	0
SC	14	8
SE	5	4
Total	66	42

Comment: The trends observed in Kansas were reflected in the rest of the U.S., with heaviest flu-like activity occurring between early November and late December.

Geographic regions in Kansas



Percent of deaths due to pneumonia and influenza, October, 1995 - March, 1996, Kansas



Comment: During the 1995/1996 flu season, January showed the highest percentage of deaths due to pneumonia and influenza. Over 95% of deaths due to pneumonia during this period were among people aged 65 and over.

\* Specimens analyzed by the Kansas Health and Environment Laboratory.

## Pediatric Lead Poisoning

Number of cases - 1,202

% change from 1994 - plus 16%

Kansas rate - 451.1 per 100,000  
children age < 6 years old

U.S. rate (1994) - not available

Age of case-patients

Median - 36 months

Range - 6 to 71 months

Rate by sex

Female - 403.3 per 100,000

Male - 425.6 per 100,000

Rate by race - not available

Rate by ethnicity - not available

Rate by geographic area

Urban - 126.0 per 100,000

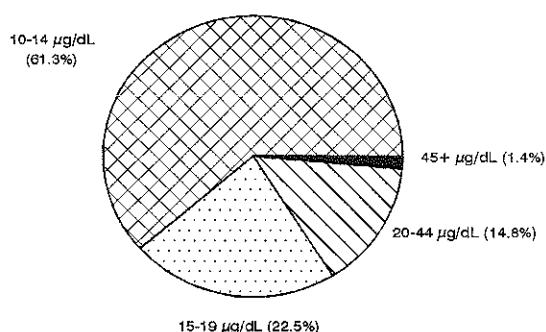
Rural - 510.3 per 100,000

Comment: Pediatric lead poisoning was defined as a blood lead level  $\geq 10 \mu\text{g/dL}$ .

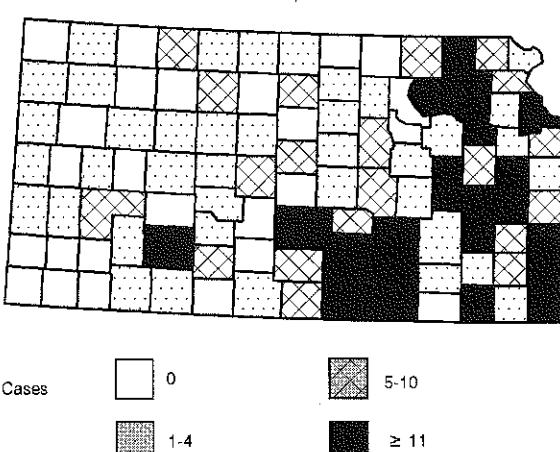
Results were received from both private and public laboratories. Only elevated results are reported by private laboratories.

*Differences in number of cases by geographic area may be attributable to variations in screening practices.*

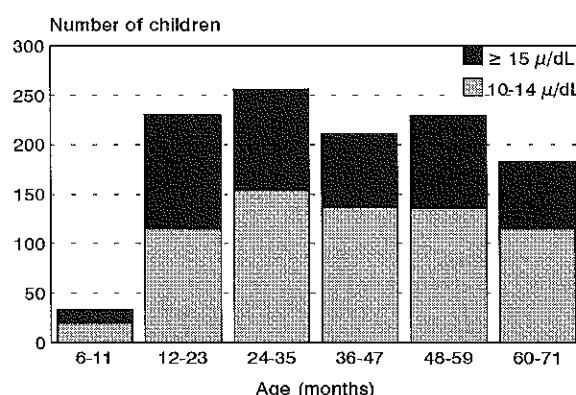
Positive Blood lead results for children 6 to 71 months  
Kansas, 1995



Pediatric lead poisoning cases by county  
Kansas, 1995



Pediatric lead poisoning by age group  
Kansas, 1995



## Legionellosis

Number of cases - 8

Kansas rate - 0.3 per 100,000

U.S. rate (1994) - 0.6 per 100,000

Age of case-patients

Median - 58 years

Range - 38 to 69 years

Cases by sex

Female - 1

Male - 7

Cases by geographic area

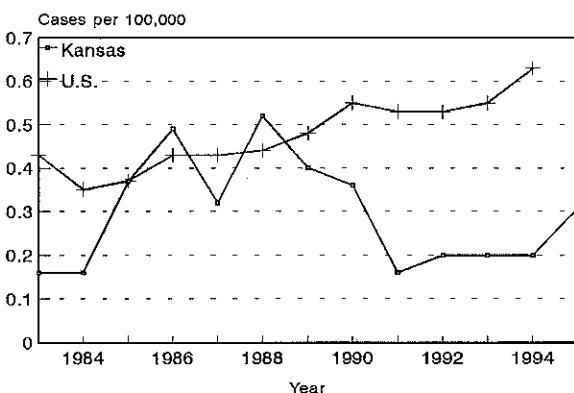
Urban - 4

Rural - 4

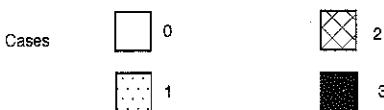
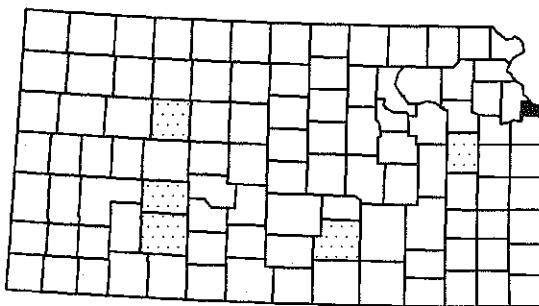
Underlying condition at date of onset

Smoker	4 (50%)
Systemic corticosteroids	2 (25%)
Cancer	0 ( 0%)
Other immuno-suppressants	2 (25%)
Diabetes	2 (25%)
Renal dialysis	1 (13%)
Renal transplant	1 (13%)

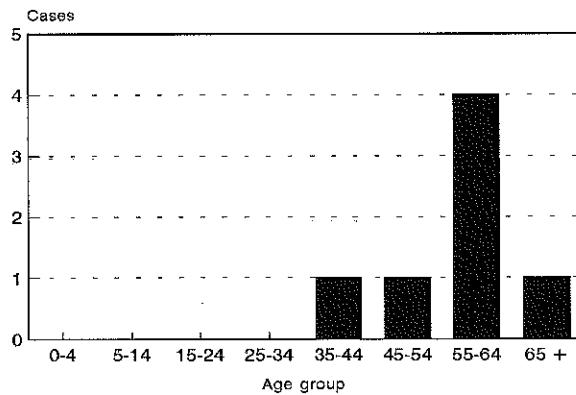
Legionellosis rate by year  
Kansas, 1983-1995



Legionellosis cases by county  
Kansas, 1995



Legionellosis cases by age group  
Kansas, 1995



## Lyme Disease

Number of cases - 23

Kansas rate - 0.9 per 100,000

U.S. rate (1994) - 5.0 per 100,000

Age of case-patients

Median - 35 years

Range - 3 to 72 years

Cases by sex

Female - 17

Male - 6

Site of likely exposure

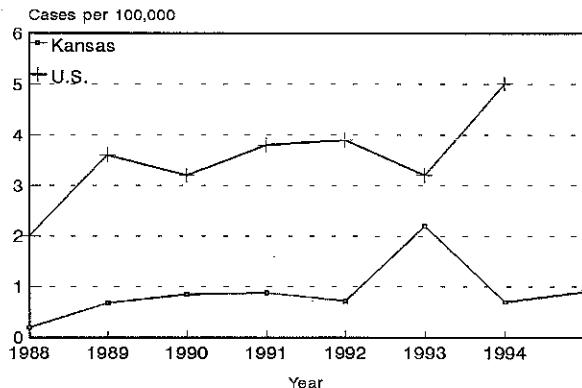
Kansas	16 (70%)
Out of state	1 ( 4%)
Out of country	1 ( 4%)
Unknown	2 ( 9%)

Clinical characteristics

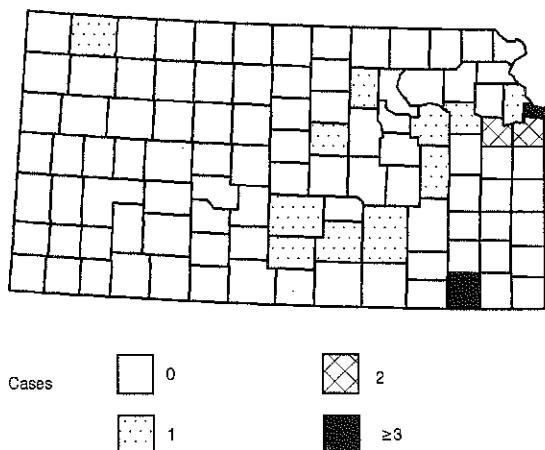
Erythema migrans	14 (61%)
Rheumatic signs	13 (57%)
Neurologic signs	3 (13%)
Cardiac signs	0 ( 0%)

Comment: The spirochete (*Borrelia burgdorferi*) that causes Lyme disease has not yet been isolated by culture in Kansas.

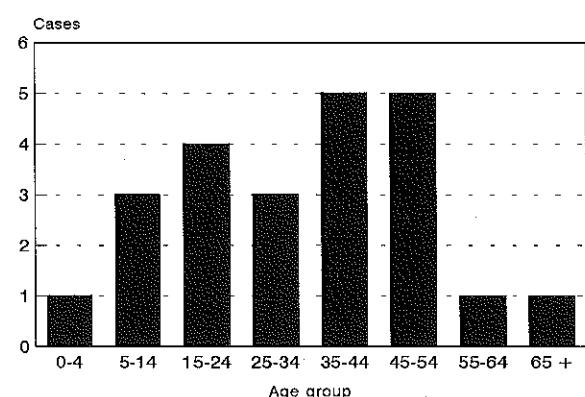
Lyme disease rate by year  
Kansas, 1988-1995



Lyme disease cases by county  
Kansas, 1995



Lyme disease cases by age group  
Kansas, 1995



## Malaria

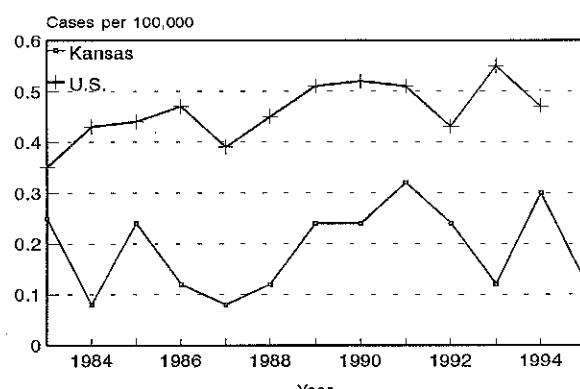
---

Number of cases - 4

Kansas rate - 0.2 per 100,000

U.S. rate (1994) - 0.5 per 100,000

Malaria rate by year  
Kansas, 1983-1995



Age of case-patients

Median - 31 years

U.S. citizen

Range - < 1 to 45 years

Yes 2

No 2

Cases by sex

Malaria species

Female - 2

P. vivax 1

Male - 2

Ovale 1

Unknown 2

Country of recent travel

Prophylaxis

India 1

Primaquine 3

Nigeria 1

Quinine 1

Vietnam 1

Comment: One of the cases reported in Kansas in 1995 was congenital malaria.

## Measles

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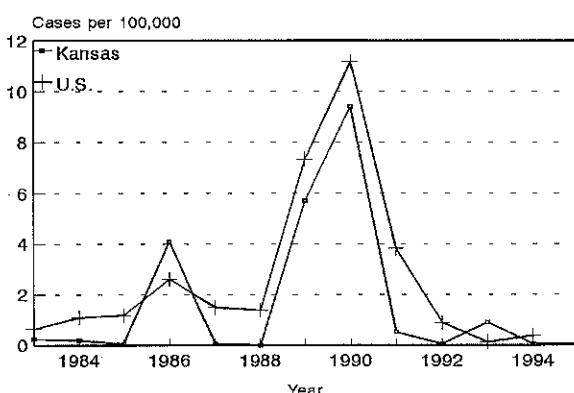
Number of cases - 1

Kansas rate - < 0.1 per 100,000

U.S. rate (1994) - 0.4 per 100,000

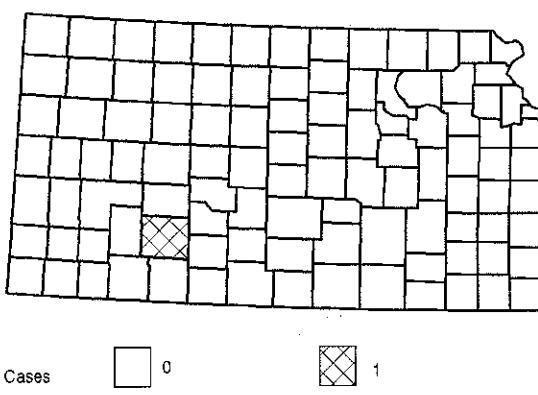
Comment: Children are to be immunized against measles at 12-15 months of age using the triple antigen vaccine (measles-mumps-rubella).

Measles rate by year  
Kansas, 1983-1995



Measles cases by county

Kansas, 1995



## Aseptic Meningitis

Number of cases - 117

% change from 1994 - plus 48%

Kansas rate - 4.6 per 100,000

U.S. rate (1994) - not available

### Age of case-patients

Median - 26 years

Range - < 1 to 74 years

### Rate by sex

Female - 4.5 per 100,000

Male - 4.6 per 100,000

### Rate by race

White - 4.8 per 100,000

Black - 3.5 per 100,000

Asian - no case reported

Am. Indian - no case reported

### Rate by ethnicity

Hispanic - 5.3 per 100,000

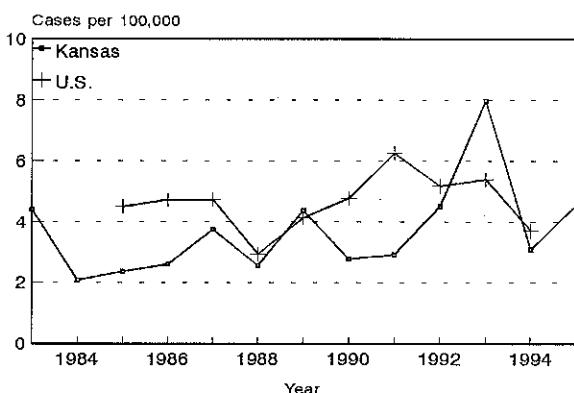
Non Hispanic - 3.7 per 100,000

### Rate by geographic area

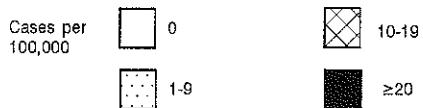
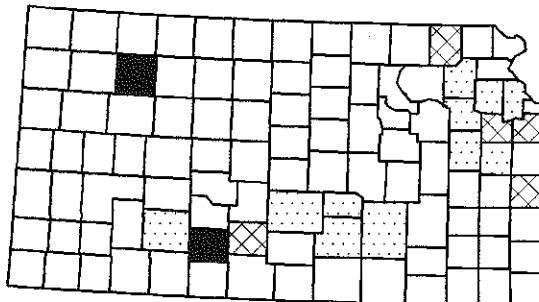
Urban - 7.9 per 100,000

Rural - 2.0 per 100,000

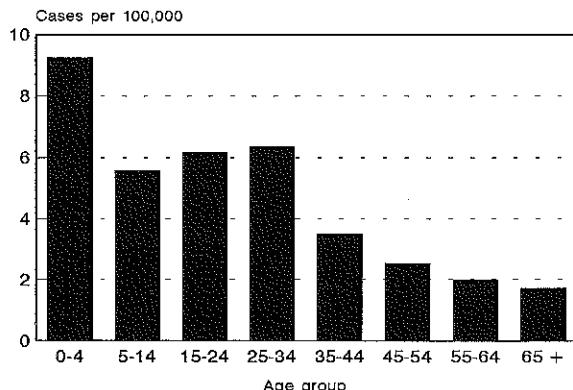
Aseptic Meningitis rate by year of report  
Kansas, 1983-1995



Aseptic meningitis rate by county  
Kansas, 1995



Aseptic Meningitis rate by age group  
Kansas, 1995



## **Haemophilus influenzae Meningitis**

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Number of cases - 2

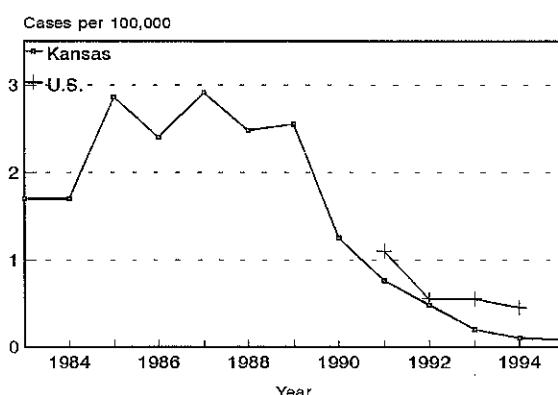
Kansas rate - 0.1 per 100,000

U.S. rate (1994) - 0.5 per 100,000

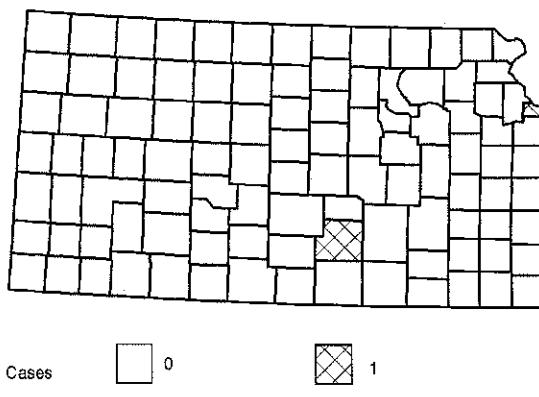
Median age of cases - 31 years

Comment: One pediatric case did not receive HIB vaccine.

**Haemophilus influenzae meningitis  
rate by year - Kansas, 1983-1995**



**Haemophilus influenzae meningitis  
cases by county - Kansas, 1995**



## Meningococcal Disease

Number of cases - 28

Kansas rate - 1.1 per 100,000

U.S. rate (1994) - 1.1 per 100,000

Age of case-patients

Median - 20 years

Range - < 1 to 89 years

Cases by sex

Female - 19

Male - 9

Cases by geographic area

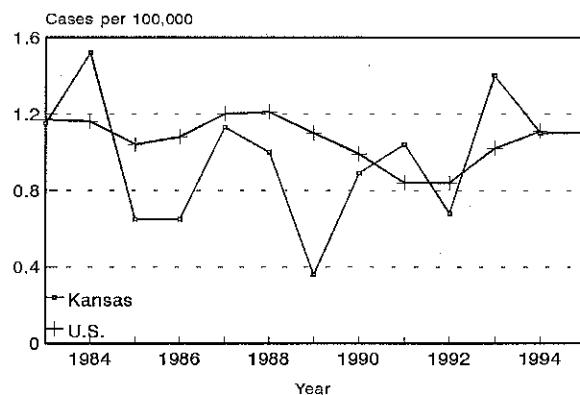
Urban - 17

Rural - 11

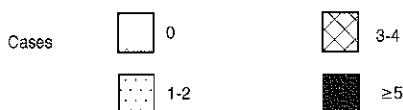
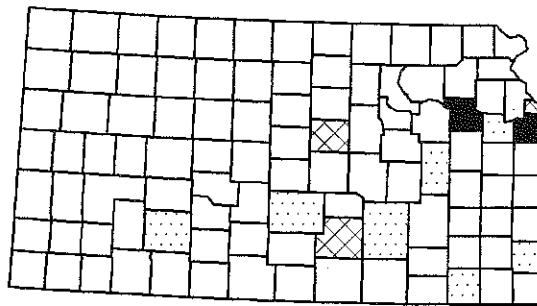
Serogroup

A	0	( 0%)
B	0	( 0%)
C	2	( 7%)
Y	5	(18%)
Unknown	21	(75%)

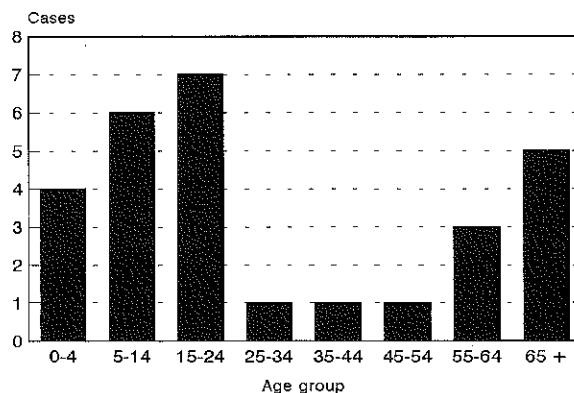
Meningococcal disease rate by year  
Kansas, 1983-1995



Meningococcal cases by county  
Kansas, 1995



Meningococcal disease cases by age group  
Kansas, 1995



## Pertussis

Number of cases - 23

Kansas rate - 0.9 per 100,000

U.S. rate (1994) - 1.8 per 100,000

Age of case-patients

Median - 2 year

Range - < 1 to 7 years

Cases by sex

Female - 15

Male - 8

Cases by geographic area

Urban - 12

Rural - 11

Vaccination status of cases

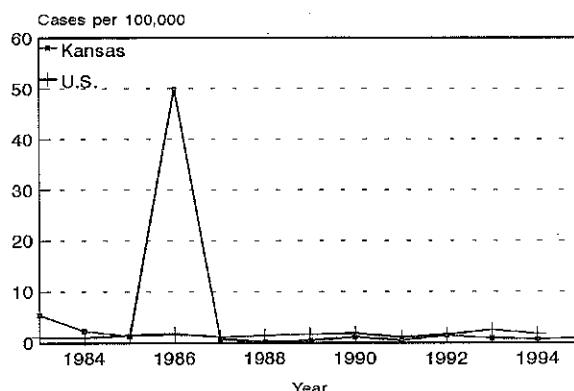
No history of vaccine	6 (26%)
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Too young for vaccine (< 2 mo.)	5 (22%)
---------------------------------	---------

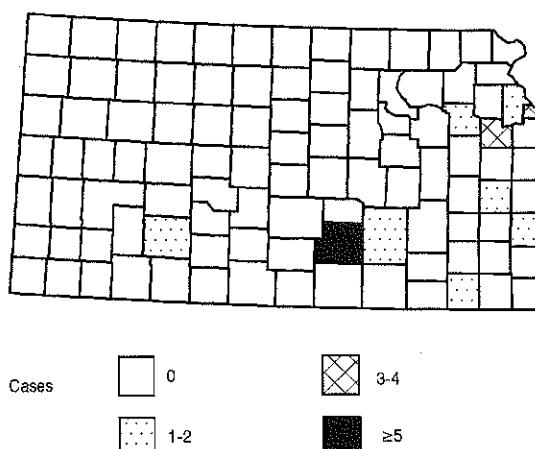
Previous DPT, but not up-to-date	5 (22%)
----------------------------------	---------

Up-to-date	6 (26%)
Unknown	1 (4%)

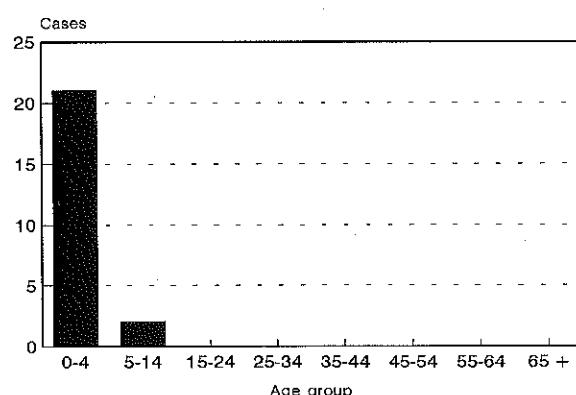
Pertussis rate by year  
Kansas, 1983-1995



Pertussis cases by county  
Kansas, 1995



Pertussis cases by age group  
Kansas, 1995



## Rabies, Animal

Number of cases - 46

Number of counties reporting rabid animals - 20 (19%)

### Types of rabid animals

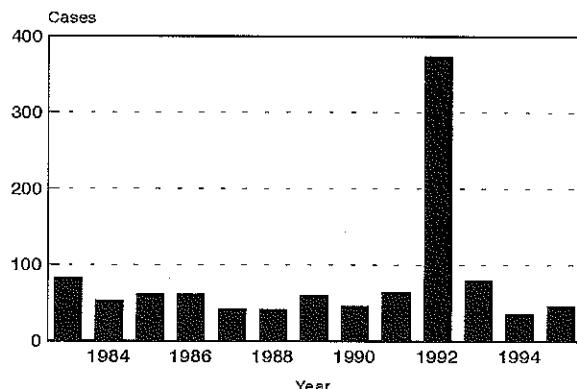
Wild	37 (80%)
Domestic	9 (20%)
Pets	6
Livestock	3

Rabies was not found in the following species tested in Kansas during the past 5 years (1991-1995):

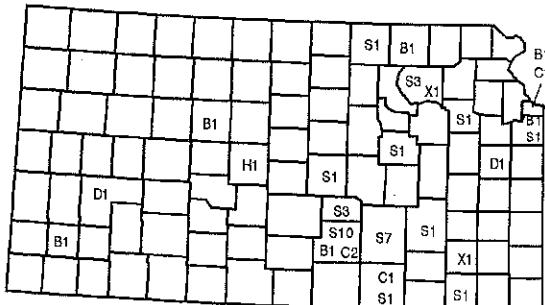
Antelope, Baboon, Badger, Beaver, Bison, Chipmunk, Coati, Cougar, Deer, Donkey, Ferret, G. Squirrel, Gerbil, Goat, Gopher, Groundhog, Guinea Pig, Hamster, Hedgehog, Human, Lion, Llama, Mink, Mole, Mouse, Muskrat, Opossum, Pig, Porcine, Porcupine, Prairie Dog, Primate, Pronghorn, Rabbit, Rat, Ringtail, Rodent, Sheep, Squirrel, Tiger, Weasel, Wolf, Woodchuck, Other rodents/ lagomorphs ,

Comment: The last human case of rabies in Kansas occurred in Montgomery County in 1968.

Animal rabies by year  
Kansas, 1983-1995



Animal rabies by species and county  
Kansas, 1995



B=bat C=cat D=dog H=horse S=skunk X=cow

Rabid animals by species  
Kansas, 1995

Species	Number Tested	Number Positive	Percent Positive
Bat	50	6	12.0
Cat	623	4	0.6
Cow	41	2	4.9
Dog	713	2	0.3
Horse	13	1	7.7
Skunk	112	31	27.7

## Rocky Mountain Spotted Fever

---

Number of cases - 4

Kansas rate - 0.2 per 100,000

U.S. rate (1994) - 0.2 per 100,000

Age of case-patients

Median - 34 years

Range - 11 to 44 years

Cases by sex

Female - 2

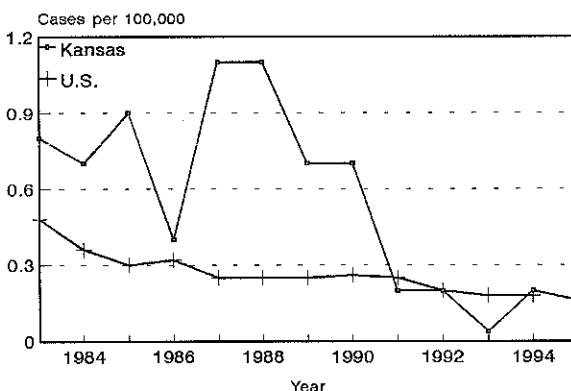
Male - 2

Cases by geographic area

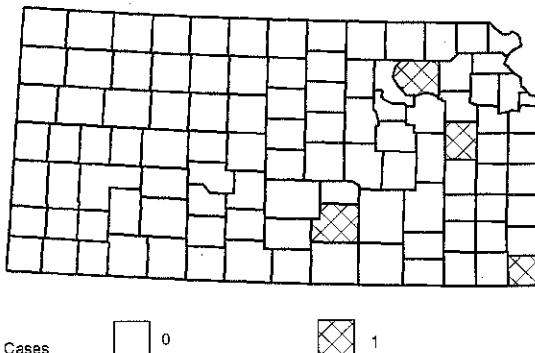
Urban - 1

Rural - 3

Rocky Mountain Spotted Fever rate  
by year - Kansas, 1983-1995

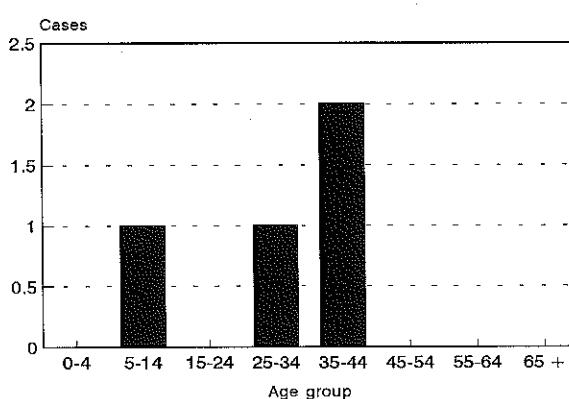


Rocky Mountain Spotted Fever cases by county - Kansas, 1995



Cases      □ 0      ☒ 1

Rocky Mountain Spotted Fever cases  
by age group - Kansas, 1995



## Rubella

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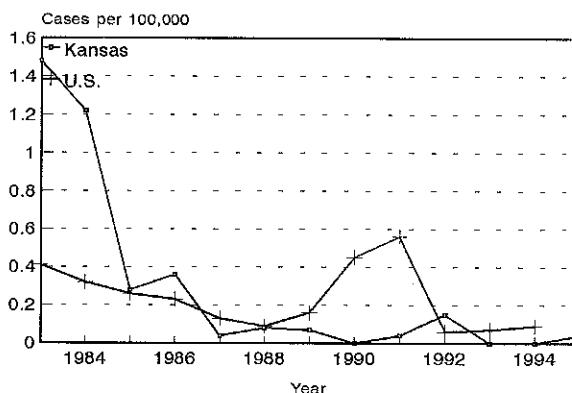
Number of cases - 1

Kansas rate - < 0.1 per 100,000

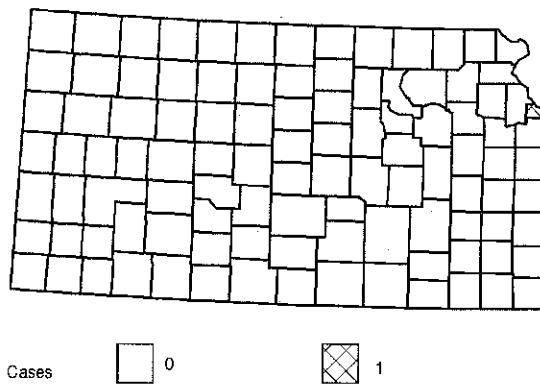
U.S. rate (1994) - 0.1 per 100,000

Comment: Case history shows two documented doses of MMR. Acute and convalescent serum indicated a threefold rise in titer.

Rubella rate by year  
Kansas, 1983-1995



Rubella cases by county  
Kansas, 1995



## Salmonellosis

Number of cases - 363

% change from 1994 - minus 9%

Kansas rate - 14.2 per 100,000

U.S. rate (1994) - 16.6 per 100,000

### Age of case-patients

Median - 25 years

Range - < 1 to 98 years

### Rate by sex

Female - 14.6 per 100,000

Male - 13.5 per 100,000

### Rate by race

White - 9.1 per 100,000

Black - 16.1 per 100,000

Asian - 9.5 per 100,000

Am. Indian - 13.7 per 100,000

### Rate by ethnicity

Hispanic - 12.8 per 100,000

Non Hispanic - 7.7 per 100,000

### Rate by geographic area

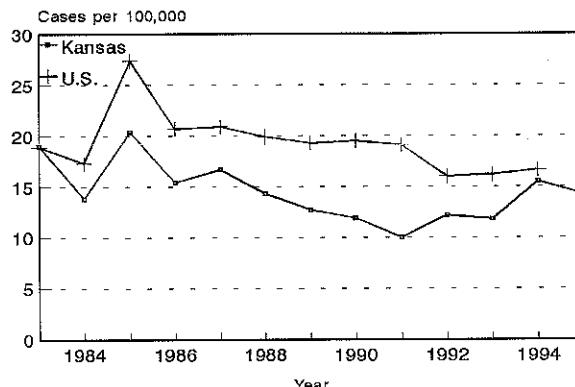
Urban - 16.0 per 100,000

Rural - 16.0 per 100,000

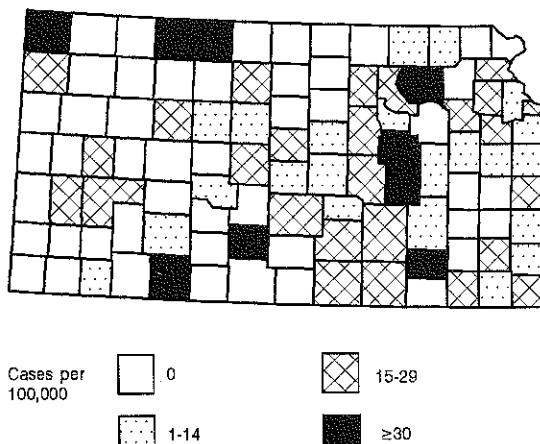
### Serotypes Identified by state laboratory

S. typhimurium	76	(21%)
S. newport	43	(12%)
S. enteritidis	27	( 8%)
S. heidelberg	11	( 3%)
S. muenchen	8	( 2%)
S. braenderup	7	( 2%)
S. javiana	6	( 2%)
S. montevideo	5	( 1%)
S. stanley	4	( 1%)
S. typhi	4	( 1%)
S. hadar	3	( 1%)
Other	95	(26%)
Unknown/not tested	74	(20%)

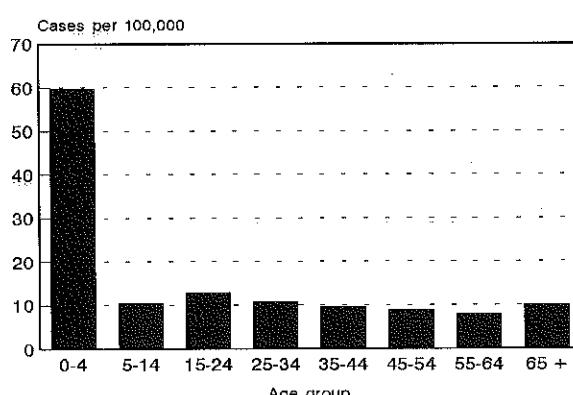
Salmonellosis rate by year  
Kansas, 1983-1995



Salmonellosis rate by county  
Kansas, 1995



Salmonellosis rate by age group  
Kansas, 1995



## Shigellosis

---

Number of cases - 302

% change from 1994 - plus 146%

Kansas rate - 11.8 per 100,000

U.S. rate (1994) - 11.4 per 100,000

### Age of case-patients

Median - 10 years

Range - < 1 year to 83 years

### Rate by sex

Female - 13.6 per 100,000

Male - 9.4 per 100,000

### Rate by race

White - 7.0 per 100,000

Black - 48.9 per 100,000

Asian - 3.2 per 100,000

Am. Indian - 13.7 per 100,000

### Rate by ethnicity

Hispanic - 13.9 per 100,000

Non Hispanic - 7.6 per 100,000

### Rate by geographic area

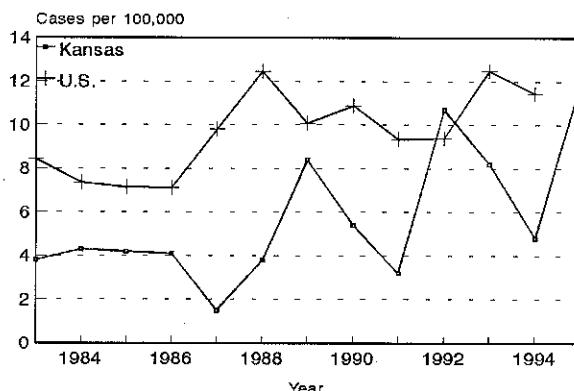
Urban - 19.3 per 100,000

Rural - 5.9 per 100,000

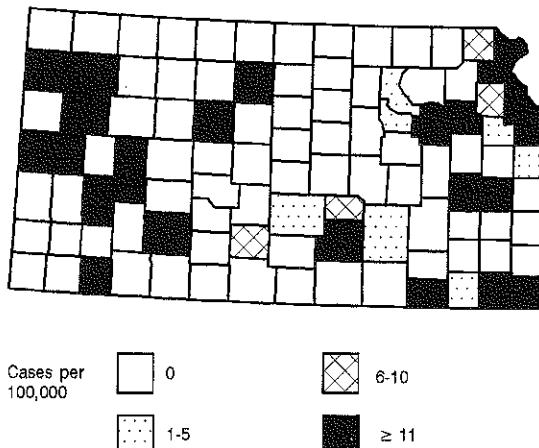
### Species isolated by state laboratory

S. sonnei	190	(63%)
S. flexneri	4	( 1%)
S. boydii	1	(<1%)
Unknown/not tested	107	(35%)

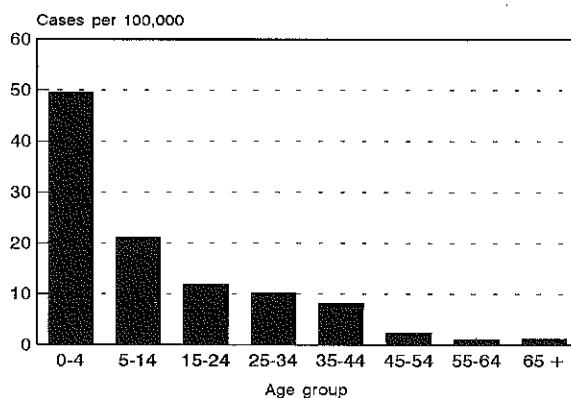
Shigellosis rate by year  
Kansas, 1983-1995



Shigellosis rate by county  
Kansas, 1995



Shigellosis rate by age group  
Kansas, 1995



## Syphilis, Primary and Secondary

---

Number of cases - 47

Kansas rate - 1.8 per 100,000

U.S. rate (1994) - 8.1 per 100,000

Age of case-patients

Median - 30 years

Range - 15 to 55 years

Cases by sex

Female - 22

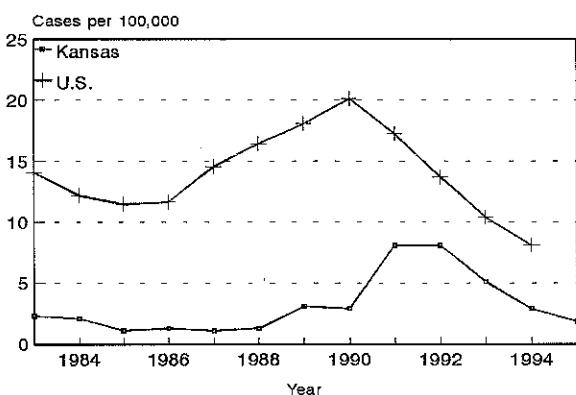
Male - 25

Cases by geographic area

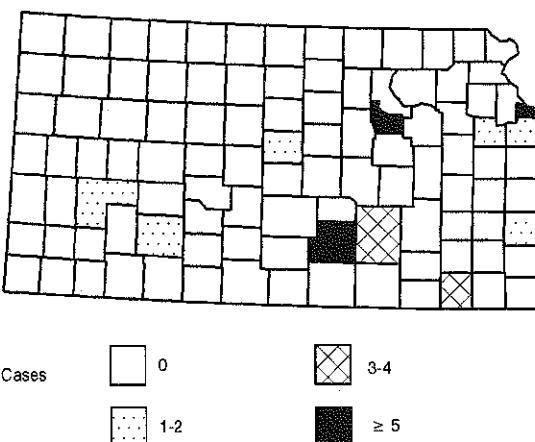
Urban - 30

Rural - 17

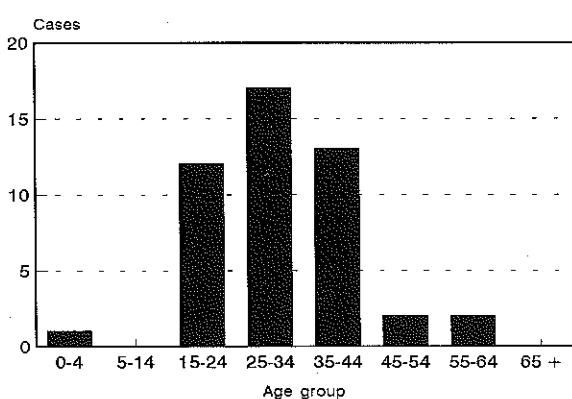
Primary and secondary syphilis rate  
by year - Kansas, 1983-1995



Primary and secondary syphilis cases by county  
Kansas, 1995



Primary and secondary syphilis cases  
by age group - Kansas, 1995



## Tetanus

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Number of cases - 2

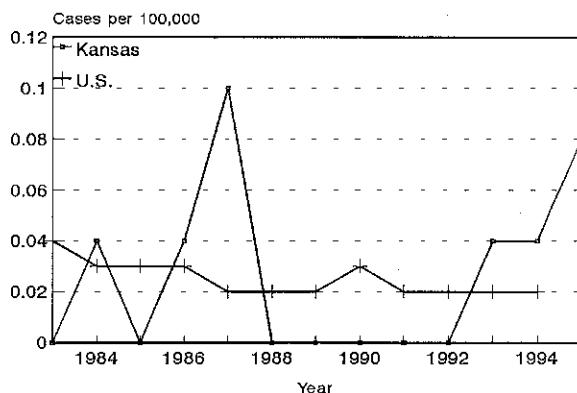
Kansas rate - 0.1 per 100,000

U.S. rate (1994) - < 0.1 per 100,000

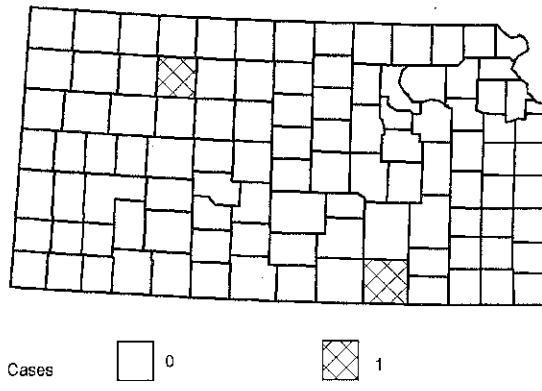
Median age of cases - 69 years

Comment: Vaccination status of both cases is unknown.

Tetanus rate by year  
Kansas, 1983-1995



Tetanus cases by county  
Kansas, 1995



## Toxic Shock Syndrome

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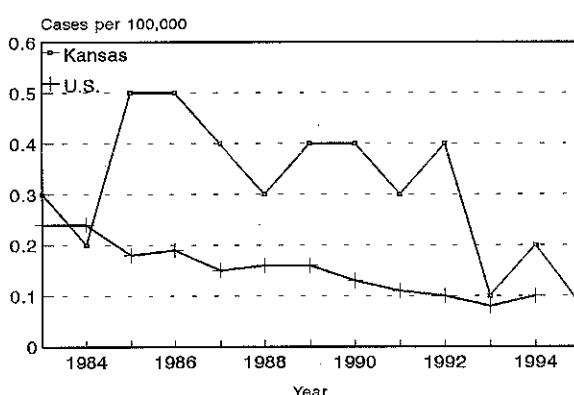
Number of cases - 2

Kansas rate - 0.1 per 100,000

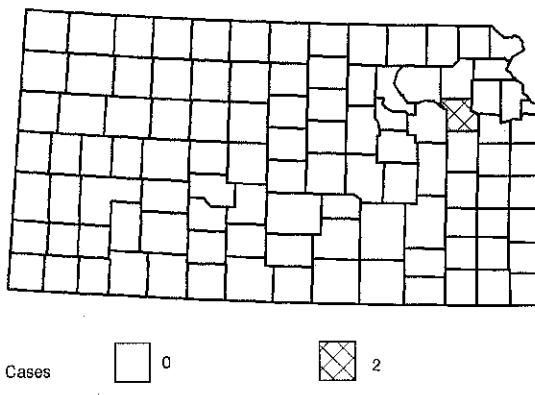
U.S. rate (1994) - 0.1 per 100,000

Median age of cases - 37 years

Toxic Shock Syndrome rate by year  
Kansas, 1983-1995



Toxic Shock Syndrome cases by county  
Kansas, 1995





## Tularemia

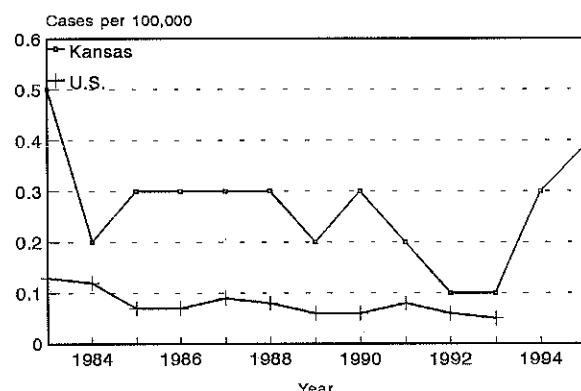
---

Number of cases - 10

Kansas rate - 0.4 per 100,000

U.S. rate (1994) - < 0.1 per 100,000

Tularemia rate by year  
Kansas, 1983-1995



Age of case-patients

Median - 30 years

Range - 5 to 57 years

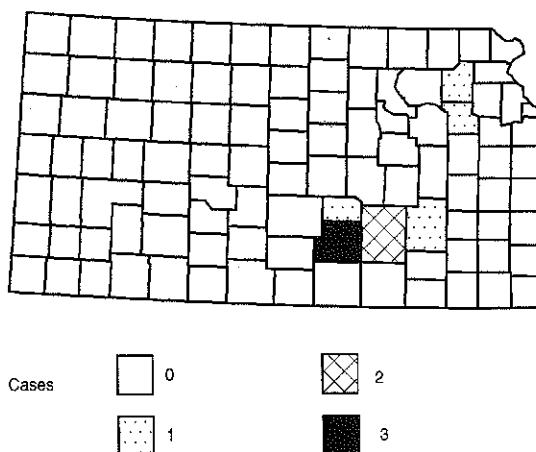
Cases by sex

Female - 3

Male - 7

Tularemia cases by county

Kansas, 1995

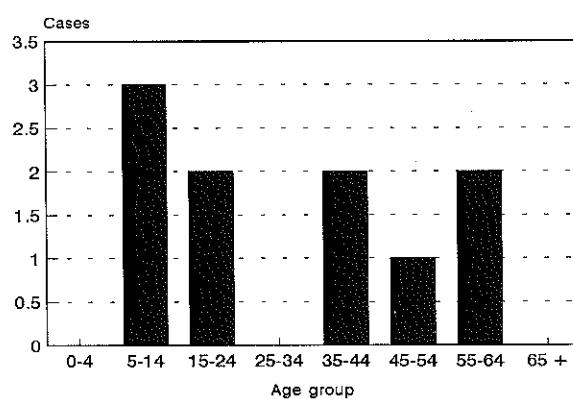


Cases by geographic area

Urban - 4

Rural - 6

Tularemia cases by age group  
Kansas, 1995



## Yersiniosis

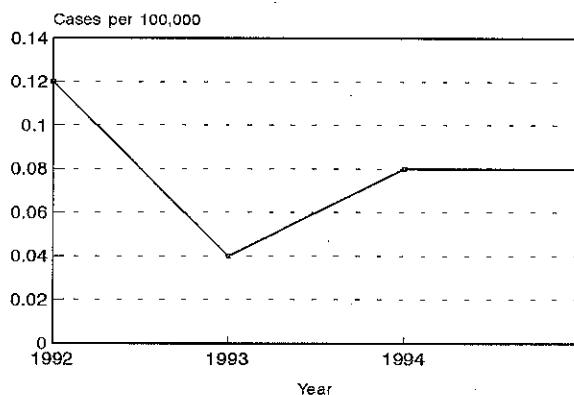
Number of cases - 2

Kansas rate - 0.1 per 100,000

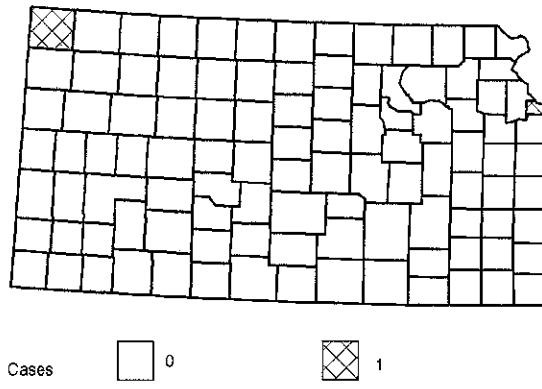
U.S. rate (1994) - not available

Median age of cases - 41 years

Yersiniosis rate by year  
Kansas, 1992-1995



Yersiniosis cases by county  
Kansas, 1995



## **SECTION II**

### **TABLES**



**Table 1. List of reportable diseases in Kansas, 1995**

Reportable by physicians, dentists, physician's assistants, social workers, teachers and school administrators (K.A.R. 28-1-2 effective April 19, 1993 and 28-1-22 effective December 24, 1990)

Acquired Immune Deficiency Syndrome (AIDS)  
Amebiasis  
Anthrax  
Botulism  
Brucellosis  
Campylobacteriosis  
Chancroid  
Chickenpox (varicella)  
Chlamydia species infections, including psittacosis  
Cholera  
Diphtheria  
Encephalitis, infectious  
Giardiasis  
Gonorrhea  
Granuloma inguinale  
Hepatitis, viral  
Human Immunodeficiency Virus (HIV) - reportable by physicians only  
Legionellosis  
Leprosy (Hansen's disease)  
Leptospirosis  
Lyme disease  
Lymphogranuloma venereum  
Malaria  
Measles (rubeola)  
Meningitis  
Mumps  
Pertussis (whooping cough)  
Plague  
Poliomyelitis  
Rabies  
Rheumatic fever  
Rocky Mountain Spotted Fever  
Rubella, including congenital rubella syndrome  
Salmonellosis, including typhoid fever  
Shigellosis

Syphilis, including congenital syphilis  
Tetanus  
Toxic shock syndrome\*  
Trichinosis  
Tuberculosis  
Tularemia  
Typhus, murine  
Urethritis, other than gonococcal or chlamydial\*  
Vaginitis, non-specific\*  
Yellow Fever

Reportable by laboratories (K.A.R. 28-1-18 effective August 16, 1993 and 28-1-22 effective December 24, 1990)

Blood lead level  $\geq$  10  $\mu\text{g}/\text{dL}$  for persons < 18 years of age, and  $\geq$  25  $\mu\text{g}/\text{dL}$  for persons  $\geq$  18 years of age  
CD4+ T-lymphocyte count of less than 200/ml or a CD4+ T-lymphocyte percent of total lymphocytes less than 14  
Chlamydia  
Gonorrhea  
Human Immunodeficiency Virus (HIV)  
Syphilis  
Tuberculosis  
*E. Coli* O152:H7\*\*  
Cryptosporidium\*\*

Reportable by hospitals (K.A.R. 28-1-4 effective May 1, 1986 and 28-1-22 effective December 24, 1990)

Acquired Immune Deficiency Syndrome (AIDS)  
Cancer  
Congenital malformations in infants under one year of age  
Fetal alcohol syndrome  
Guillain-Barre Syndrome\*  
Reye syndrome  
Toxic shock syndrome\*

\* No longer reportable in 1996

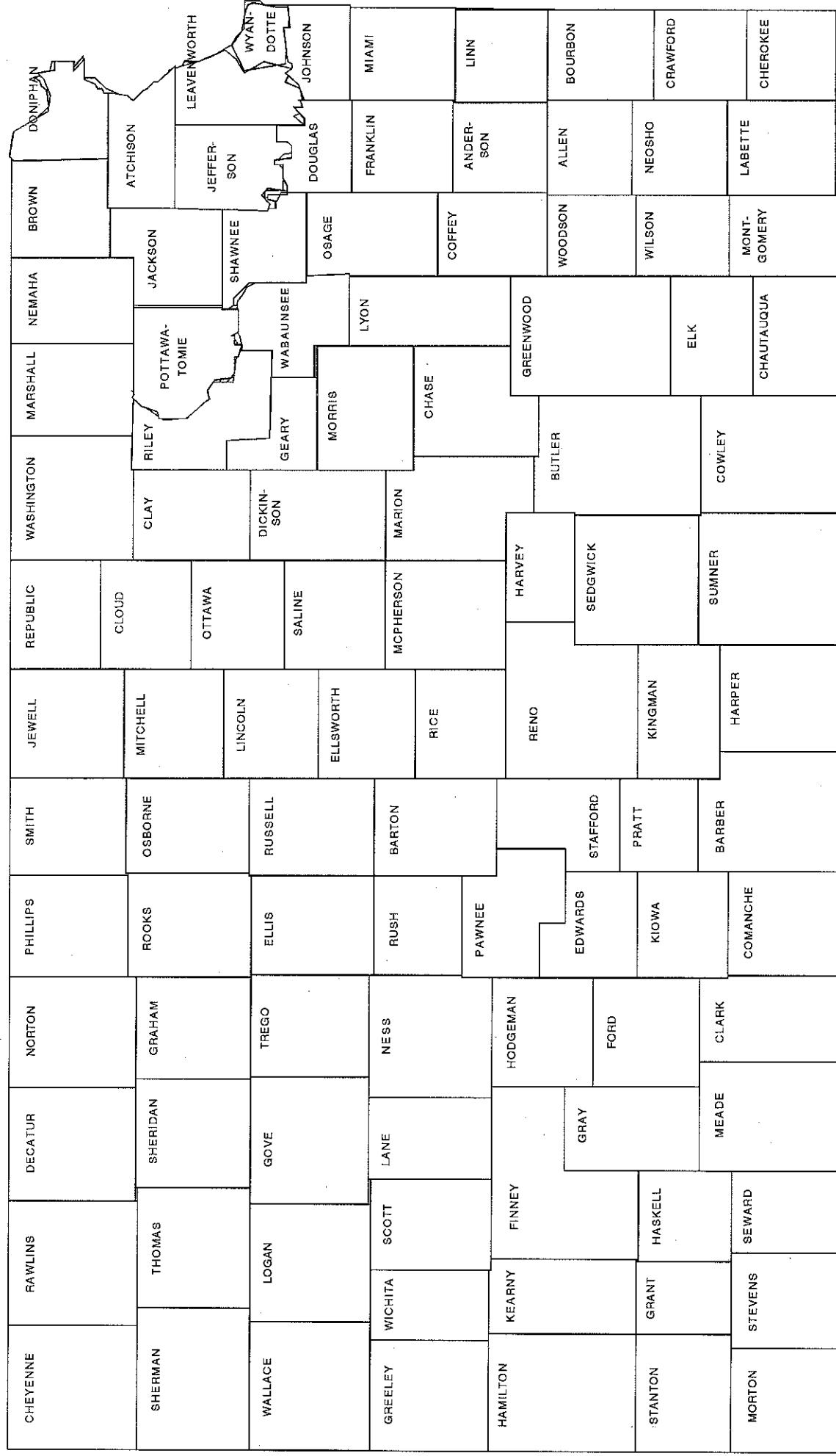
\*\* Reportable starting in 1996

**Table 2. County abbreviations**

AL	Allen	HS	Haskell	RL	Riley
AN	Anderson	HG	Hodgeman	RO	Rooks
AT	Atchison	JA	Jackson	RH	Rush
BA	Barber	JF	Jefferson	RS	Russell
BT	Barton	JW	Jewell	SA	Saline
BB	Bourbon	JO	Johnson	SC	Scott
BR	Brown	KE	Kearny	SG	Sedgwick
BU	Butler	KM	Kingman	SW	Seward
CS	Chase	KW	Kiowa	SN	Shawnee
CQ	Chatauqua	LB	Labelle	SD	Sheridan
CK	Cherokee	LE	Lane	SH	Sherman
CN	Cheyenne	LV	Leavenworth	SM	Smith
CA	Clark	LC	Lincoln	SF	Stafford
CY	Clay	LN	Linn	ST	Stanton
CD	Cloud	LG	Logan	SV	Stevens
CF	Coffey	LY	Lyon	SU	Sumner
CM	Comanche	MN	Marion	TH	Thomas
CL	Cowley	MS	Marshall	TR	Trego
CR	Crawford	MP	McPherson	WB	Wabaunsee
DC	Decatur	ME	Meade	WA	Wallace
DK	Dickinson	MI	Miami	WS	Washington
DP	Doniphan	MC	Mitchell	WH	Wichita
DG	Douglas	MG	Montgomery	WL	Wilson
ED	Edwards	MR	Morris	WO	Woodson
EK	Elk	MT	Morton	WY	Wyandotte
EL	Ellis	NM	Nemaha		
EW	Ellsworth	NO	Neosho		
FI	Finney	NS	Ness		
FO	Ford	NT	Norton		
FR	Franklin	OS	Osage		
GE	Geary	OB	Osborne		
GO	Gove	OT	Ottawa		
GH	Graham	PN	Pawnee		
GT	Grant	PL	Phillips		
GY	Gray	PT	Pottawatomie		
GL	Greeley	PR	Pratt		
GW	Greenwood	RA	Rawlins		
HM	Hamilton	RN	Reno		
HP	Harper	RP	Republic		
HV	Harvey	RC	Rice		

**Table 3. Map of Kansas**

4



**Table 4. Cases of reportable diseases by year in Kansas, 1983-1995**

DISEASE	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
AIDS	3	2	16	35	48	102	101	134	93	188	358	227	286
AMEBIASIS	30	11	29	22	49	36	19	4	1	1	22	15	2
ANTHRAX	0	0	0	0	0	0	0	0	0	0	0	0	0
BOTULISM, FOODBORNE	0	0	0	0	0	0	0	0	0	0	0	0	1
BOTULISM, INFANT	0	1	0	0	0	1	0	0	0	1	0	0	2
BOTULISM, OTHER	0	0	0	0	0	0	0	0	1	0	0	0	0
BRUCELLOSIS	2	2	2	1	0	0	1	1	0	0	0	0	0
CAMPYLOBACTERIOSIS	83	133	208	137	167	218	224	185	200	253	201	247	238
CHANCRID	0	0	0	0	4	1	1	13	5	3	1	5	2
CHICKENPOX *	6856	10295	9069	10367	8310	346	494	3253	3367	4179	1687	3190	1582
CHLAMYDIA	-	600	1124	1522	3042	3701	3772	5218	6791	7024	5694	6393	5315
CHOLERA	0	0	0	0	0	1	0	0	0	0	0	0	0
CRYPTOSPORIDIOSIS +	-	-	-	-	-	-	-	-	-	-	-	1	31
DIPHTHERIA	0	0	0	0	0	0	0	0	0	0	0	0	0
E. coli O157:H7 +	-	-	-	-	-	-	-	2	4	4	11	25	29
ENCEPHALITIS, PRIMARY	4	8	6	2	12	9	6	13	5	5	7	7	11
ENCEPHALITIS, SLE	0	0	0	0	2	0	0	0	0	0	0	0	0
ENCEPHALITIS, WEE	0	0	0	0	0	1	0	0	0	0	0	0	0
GIARDIASIS	494	577	646	537	659	561	419	380	309	521	385	415	395
GONORRHEA	7920	7217	7006	6617	4482	4852	5183	4673	4637	4404	3710	3682	2797
GRANULOMA INGUINALE	0	0	0	1	0	0	0	0	0	0	0	0	0
HANSEN'S DISEASE	1	0	1	2	0	1	0	0	0	0	0	0	0
HANTAVIRUS PUM. SYN.	-	-	-	-	-	-	-	-	-	1	4	0	0

\* Aggregate cases, no county specific data.  
+ Became reportable as of January 12, 1996.

**Table 4. Cases of reportable diseases by year in Kansas, 1983-1995**

DISEASE	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
HEPATITIS A	96	70	97	137	402	396	276	271	89	141	79	111	162
HEPATITIS B	74	87	97	94	99	159	121	139	56	66	65	31	53
HEP, C/NON-A NON-B	10	17	28	18	19	17	18	40	20	16	16	18	18
LEAD ≥ 10 µg/dL	-	-	-	-	-	-	-	-	-	-	545	1034	1202
LEGIONELLOSIS	4	1	9	12	8	13	10	9	4	5	7	6	8
LEPROSPIROSIS	0	0	0	0	1	0	0	0	0	0	0	0	0
LYME DISEASE	0	0	0	0	0	5	17	21	22	18	55	17	23
LYMPHOGRANULOMA VEN.	0	1	1	0	0	0	1	0	0	0	0	0	0
MALARIA	6	2	6	3	2	3	6	6	8	6	3	7	3
MEASLES	6	5	1	102	1	0	142	233	13	1	2	1	1
MENINGITIS, ASEPTIC	107	51	58	64	93	64	110	69	73	114	202	79	117
MENINGITIS, HIB	-	-	70	59	72	62	64	31	19	12	4	3	2
MENINGOCOCCAL DISEASE	28	37	16	16	28	25	9	22	26	17	36	28	28
MUMPS	77	62	51	61	74	205	297	91	31	3	1	1	0
PERTUSSIS	130	55	31	1229	17	6	12	27	12	34	24	18	23
PLAGUE	0	0	0	0	0	0	0	0	0	0	0	0	0
POLIOMYELITIS	0	0	0	0	0	0	0	-	-	0	0	0	0
PSITTACOSIS	3	0	1	0	0	0	0	1	0	1	0	0	0
RABIES, ANIMAL	82	53	63	33	39	58	45	63	374	79	35	46	
RABIES, HUMAN	0	0	0	0	0	0	0	0	0	0	0	0	0
RHEUMATIC FEVER	3	4	1	6	11	10	6	1	2	0	3	1	0
RMSF	20	18	27	10	28	28	18	18	6	5	1	4	4
RUBELLA	36	30	7	9	1	2	2	0	1	4	0	0	1
RUBELLA, CONGENITAL	1	0	0	0	0	0	0	0	1	0	0	0	0
SALMONELLOSIS	462	339	501	379	413	358	318	295	245	304	299	397	363
SHIGELLOSTIS	92	106	104	102	36	94	211	135	79	266	208	123	302

**Table 4. Cases of reportable diseases by year in Kansas, 1983-1995**

DISEASE	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
SYPHILIS, P AND S	56	59	34	35	30	38	82	87	201	203	129	74	47
SYPHILIS, CONGENITAL	-	-	0	1	0	0	2	0	2	3	2	2	2
SYPHILIS, ALL STAGES	271	186	139	152	103	139	175	177	373	356	282	188	147
TETANUS	0	1	0	1	3	0	0	0	0	0	2	1	2
TOXIC SHOCK SYNDROME	8	4	12	12	9	8	10	11	8	9	3	5	2
TRICHLINOSIS	0	0	0	0	0	0	0	6	0	0	0	0	0
TUBERCULOSIS	76	77	82	72	60	58	72	78	62	56	83	84	89
TULAREMIA	11	4	8	8	8	6	6	7	5	3	3	7	10
TYPHOID FEVER	2	1	0	1	1	2	1	0	1	1	1	2	1
TYPHUS	0	0	1	0	0	1	0	0	0	0	0	0	0
URETHRITIS	-	463	837	898	1097	788	726	908	1006	871	912	914	822
VAGINITIS	-	2299	3250	4000	5374	5175	5285	4977	3975	3426	3489	2944	730
YELLOW FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0
YERSINIOSIS	-	-	-	-	-	-	-	-	-	3	1	2	2

**Table 5. Cases of reportable diseases by county in Kansas, 1995**

	AL	AN	AT	BA	BB	BR	BT	BU	CA	CD	CF	CK	CL	CM	CN
AIDS	*	0	*	0	0	0	0	*	0	0	0	0	*	0	0
AMEBIASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BOTULISM, FOODBORNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAMPYLOBACTERIOSIS	3	0	1	0	0	0	0	0	0	2	1	0	0	0	1
CHANCROID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
CHLAMYDIA	11	5	12	1	15	12	39	41	2	8	3	21	53	1	0
CRYPTOSPORIDIOSIS + <i>E. coli</i> O157:H7 +	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENCEPHALITIS, PRIMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIARDIASIS	0	0	1	0	2	0	2	5	15	1	1	1	6	0	0
GONORRHEA	0	0	2	0	4	2	14	11	1	2	4	10	0	0	0
HEPATITIS A	0	1	0	0	10	0	0	0	0	0	1	2	3	0	0
HEPATITIS B	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
HEPATITIS, C/NON-A NON-B	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
LEAD $\geq$ 10 $\mu\text{g}/\text{dL}$	6	28	8	1	33	10	9	29	0	0	11	120	50	0	0
LEGIONELLOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYME DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEASLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENTINGITIS, ASEPTIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENTINGITIS, HIB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENTINGOCOCCAL DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERTUSSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RABIES, ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RMSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUBELLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALMONELLOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHIGELLOSIS	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, P AND S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, CONGENITAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, ALL STAGES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TETANUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOXIC SHOCK SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUBERCULOSIS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TULAREMIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
URETHRITIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAGINITIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YERSINIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\* Counties which reported fewer than 5 cases.

+ Became reportable as of January 12, 1996.

**Table 5. Cases of reportable diseases by county in Kansas, 1995**

	CQ	CR	CS	CV	DC	DG	DK	DP	ED	EK	EL	EW	FI	FO	FR
AIDS	0	*	0	0	0	7	0	0	0	0	0	0	*	*	*
AMEBIASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BOTULISM, FOODBORNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAMPYLOBACTERIOSIS	0	0	1	1	0	7	3	0	1	0	0	0	3	1	1
CHANCROID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLAMYDIA	3	61	1	7	1	192	19	7	2	1	68	5	82	89	25
CRYPTOSPORIDIOSIS + <i>E. coli</i> O157:H7 +	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENCEPHALITIS, PRIMARY	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
GIARDIASIS	3	1	0	0	0	1	0	5	1	0	0	0	0	0	0
GONORRHEA	0	12	0	0	10	0	79	4	2	0	0	14	10	25	26
HEPATITIS A	0	0	0	0	0	4	0	0	0	0	0	8	15	4	16
HEPATITIS B	0	0	0	0	0	1	0	0	0	0	0	0	1	3	1
HEPATITIS, C/NON-A NON-B	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
LEAD $\geq 10 \mu\text{g}/\text{dL}$	0	12	3	0	0	0	0	0	0	0	0	0	7	16	16
LEGIONELLOPSIS	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
LYME DISEASE	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEASLES	0	0	0	0	0	0	11	0	0	0	0	0	1	0	1
MENINGITIS, ASEPTIC	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
MENINGITIS, HIB	0	0	1	0	0	1	4	0	0	0	0	1	0	0	0
MENINGOCOCCAL DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERTUSSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RABIES, ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RMSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUBELLA	0	0	2	2	0	0	14	5	0	3	0	7	3	5	5
SALMONELLOSIS	0	1	0	0	0	0	4	0	0	0	0	0	1	1	0
SHIGELLOSIS	1	0	0	0	0	0	1	0	0	0	0	0	2	1	0
SYPHILIS, P AND S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, CONGENITAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, ALL STAGES	0	1	0	0	0	0	1	0	0	0	0	0	1	2	2
TETANUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOXIC SHOCK SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUBERCULOSIS	0	0	0	0	0	0	3	0	0	0	0	0	10	1	0
TULAREMIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
URETHRITIS	0	0	0	0	0	0	16	2	0	0	0	0	2	0	1
VAGINITIS	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
YERSINIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\* Counties which reported fewer than 5 cases.

+ Became reportable as of January 12, 1996.

**Table 5. Cases of reportable diseases by county in Kansas, 1995**

	GE	GH	GL	GO	GT	GW	GY	HG	HM	HP	HS	HV	JF	JA	JU	JO
AIDS	6	0	0	0	0	0	0	0	0	0	0	0	*	0	0	34
AMEBIASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BOTULISM, FOODBORNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAMPYLOBACTERIOSIS	0	0	0	0	1	0	0	0	0	0	5	2	5	62	62	
CHANCRID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLAMYDIA	368	0	0	2	12	3	5	0	0	4	1	45	12	1	340	
CRYPTOSPORIDIOSIS + <i>E. coli</i> O157:H7 +	0	0	0	0	0	0	0	0	0	0	0	0	2	10	8	
ENCEPHALITIS, PRIMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GIARDIASIS	6	0	0	0	0	0	0	0	0	0	5	4	2	68	68	
GONORRHEA	152	0	0	0	0	0	0	0	0	0	13	5	2	89	89	
HEPATITIS A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
HEPATITIS B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEPATITIS, C/NON-A NON-B	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
LEAD $\geq$ 10 $\mu\text{g}/\text{dL}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LEGIONELLOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYME DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
MEASLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
MENINGITIS, ASEPTIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGITIS, HIB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGOCOCCAL DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
PERTUSSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RABIES, ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RMSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUBELLA	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
SALMONELLOPSIS	1	0	0	0	1	0	0	0	0	0	0	0	3	48	48	
SHIGELLOSIS	1	0	0	0	0	0	0	0	0	0	0	0	0	1	42	
SYPHILIS, P AND S	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SYPHILIS, CONGENITAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, ALL STAGES	15	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
TETANUS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOXIC SHOCK SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUBERCULOSIS	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	2
TULAREMIA	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
URETHRITIS	38	0	0	0	0	0	0	0	0	0	0	0	0	1	1	17
VAGINITIS	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
YERSINIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\* Counties which reported fewer than 5 cases.

+ Became reportable as of January 12, 1996.

**Table 5. Cases of reportable diseases by county in Kansas, 1995**

	JW	KE	KM	KW	LB	LC	LE	LN	LV	IY	MC	ME	MG	MI
AIDS	0	0	0	0	*	0	0	0	0	11	*	0	7	5
AMEBIASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BOTULISM, FOODBORNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAMPYLOBACTERIOSIS	0	0	0	0	0	0	0	0	0	0	0	1	0	0
CHANCREOID	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLAMYDIA	1	8	3	2	17	1	0	3	2	51	98	22	2	56
CRYPTOSPORIDIOSIS + <i>E. coli</i> O157:H7 +	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENCEPHALITIS, PRIMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIARDIASIS	0	0	0	0	0	0	0	0	0	0	0	0	5	2
GONORRHEA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEPATITIS A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEPATITIS B	0	0	0	1	0	0	0	0	0	0	1	0	0	0
HEPATITIS, C/NON-A NON-B	0	0	2	1	5	1	0	0	0	30	21	0	0	0
LEAD $\geq$ 10 $\mu\text{g}/\text{dL}$	1	2	6	0	0	0	0	0	0	0	0	0	2	0
LEGIONELLOSIS	0	0	0	1	0	0	0	0	0	0	0	0	0	0
LYME DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEASLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGITIS, ASEPTIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGITIS, HIB	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGOCOCCAL DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERTUSSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RABIES, ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RMSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUBELLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALMONELLOSIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0
SHIGELLOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, P AND S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, CONGENITAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, ALL STAGES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TETANUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOXIC SHOCK SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUBERCULOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TULAREMIA	1	0	0	0	0	0	0	0	0	0	0	0	0	0
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
URETHRITIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VAGINITIS	0	0	0	0	0	0	0	0	0	0	0	1	0	0
YERSINIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\* Counties which reported fewer than 5 cases.

+ Became reportable as of January 12, 1996.

**Table 5. Cases of reportable diseases by county in Kansas, 1995**

	MN	MP	MR	MS	MT	NM	NO	NS	NT	OB	OS	OT	PL	PN	PR
AIDS	5	*	0	0	0	0	0	7	0	0	0	0	0	0	0
AMEBIASIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BOTULISM, FOODBORNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAMPYLOBACTERIOSIS	1	0	1	0	0	0	1	2	0	0	1	0	0	0	6
CHANCROID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLAMYDIA	6	23	7	5	5	1	5	1	3	1	12	1	2	4	9
CRYPTOSPORIDIOSIS + <i>E. coli</i> O157:H7 +	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
ENCEPHALITIS, PRIMARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GIARDIASIS	2	1	5	0	1	2	1	0	0	0	0	0	0	0	1
GONORRHEA	1	2	1	0	5	0	0	0	0	0	0	0	0	0	1
HEPATITIS A	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
HEPATITIS B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HEPATITIS, C/NON-A NON-B LEAD $\geq 10 \mu\text{g}/\text{dL}$	0	5	1	0	0	0	7	0	0	0	0	0	0	0	4
LEGIONELLOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LYME DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEASLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENTINGITIS, ASEPTIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENTINGITIS, HIB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MENINGOCOCCAL DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERTUSSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RABIES, ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RMSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RUBELLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALMONELLOYSIS	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0
SHIGELLOYSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, P AND S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, CONGENITAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, ALL STAGES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TETANUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOXIC SHOCK SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUBERCULOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TULAREMIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
URETHRITIS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
VAGINITIS	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
YERSINIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\* Counties which reported fewer than 5 cases.

+ Became reportable as of January 12, 1996.

**Table 5. Cases of reportable diseases by county in Kansas, 1995**

	PT	RA	RC	RH	RL	RN	RO	RP	RS	SA	SC	SD	SF	SG	SH
AIDS	0	0	0	0	*	0	0	0	5	0	0	0	87	0	0
AMEBIASIS	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
BUTULISM, FOODBORNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAMPYLOBACTERIOSIS	2	0	1	0	12	1	0	0	6	0	0	1	49	4	0
CHANCROID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLAMYDIA	9	0	9	2	202	133	1	1	8	109	0	1	1324	9	0
CRYPTOSPORIDIOSIS + <i>E. coli</i> O157:H7 +	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
ENCEPHALITIS, PRIMARY	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
GIARDIASIS	5	0	0	0	0	7	31	0	9	0	0	1	46	0	0
GONORRHEA	1	0	0	4	0	46	54	1	0	0	0	0	0	714	0
HEPATITIS A	0	0	0	0	3	1	0	0	64	0	0	0	0	9	0
HEPATITIS B	0	0	0	0	0	0	1	0	0	0	0	0	11	0	0
HEPATITIS, C/NON-A NON-B	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
LEAD $\geq 10 \mu\text{g}/\text{dL}$	12	2	0	0	0	24	5	0	3	1	1	0	23	4	0
LEGIONELLOSIS	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0
LYME DISEASE	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEASLES	0	0	0	0	0	0	0	1	0	0	0	0	5	0	0
MENINGITIS, ASEPTIC	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
MENINGITIS, HIB	0	0	0	0	0	0	2	0	0	0	0	0	76	1	0
MENINGOCOCCAL DISEASE	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
PERTUSSIS	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0
RABIES, ANIMAL	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RMSF	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
RUBELLA	0	0	0	1	0	0	10	12	0	0	0	0	0	0	0
SALMONELLOPSIS	7	0	0	1	0	0	2	3	0	0	0	0	55	1	0
SHIGELLOPSIS	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0
SYPHILIS, P AND S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPHILIS, CONGENITAL	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0
SYPHILIS, ALL STAGES	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0
TETANUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOXIC SHOCK SYNDROME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUBERCULOSIS	0	0	0	1	0	0	2	1	0	0	0	0	30	0	0
TULAREMIA	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
URETHRITIS	0	0	0	0	0	0	38	31	0	0	0	0	197	0	0
VAGINITIS	8	0	0	1	0	0	45	0	0	0	0	0	3	0	0
YERSINIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\* Counties which reported fewer than 5 cases.

+ Became reportable as of January 12, 1996.

**Table 5. Cases of reportable diseases by county in Kansas, 1995**

	SM	SN	ST	SU	SV	SW	TH	TR	WA	WB	WH	WL	WO	WS	WY	TOTAL
AIDS	0	23	0	*	0	7	0	0	0	0	0	0	0	0	0	50
AMEBIASIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	286
BUTULISM, FOODBORNE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
CAMPYLOBACTERIOSIS	0	14	1	0	0	0	0	2	0	0	0	0	0	0	0	1
CHANCROID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	238
CHLAMYDIA	1	483	2	17	4	39	16	2	1	3	2	5	1	0	0	2
CRYPTOSPORIDIOSIS + <i>E. coli</i> O157:H7 +	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	31
ENCEPHALITIS, PRIMARY	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	29
GIARDIASIS	0	34	0	3	0	9	1	0	4	0	0	0	0	0	0	11
GONORRHEA	0	367	0	2	0	20	1	0	0	0	1	2	1	0	0	395
GONORRHEA	0	2	0	1	0	4	0	0	0	0	0	0	0	0	0	2797
HEPATITIS A	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	162
HEPATITIS B	0	53	0	19	0	0	0	4	1	0	0	0	0	0	0	314
HEPATITIS, C/NON-A NON-B	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3
LEAD $\geq$ 10 $\mu\text{g}/\text{dL}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
LEGIONELLOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	890
LYME DISEASE	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8
MALARIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
MEASLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
MENINGITIS, ASEPTIC	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	117
MENINGITIS, HIB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
MENINGOCOCCAL DISEASE	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	28
PERTUSSIS	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	23
RABIES, ANIMAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
RMSF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
RUBELLA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
SalMONELLOSI	0	27	0	6	0	2	0	0	0	0	0	0	0	0	0	363
SHIGELLOSI	0	19	0	2	0	2	3	0	0	0	0	0	0	0	0	302
SYPHILIS, P AND S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
SYPHILIS, CONGENITAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
SYPHILIS, ALL STAGES	0	7	0	1	0	4	0	0	0	0	0	0	0	0	0	147
TETANUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
TOXIC SHOCK SYNDROME	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
TUBERCULOSIS	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	89
TULAREMIA	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	10
TYPHOID FEVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
URETHRITIS	0	190	0	0	0	0	0	0	0	0	0	0	0	0	0	822
VAGINITIS	0	71	0	0	0	0	0	0	0	0	0	0	0	0	0	730
YERSINIOSIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

\* Counties which reported fewer than 5 cases.

+ Became reportable as of January 12, 1996.

**Table 6. Publications on disease control in Kansas, 1995**

Calder, JC. Rabies in Kansas, 1994. 1995;6-7, 25.

CDC. Achievement of Dietary Goals - Kansas, 1993. MMWR. 1995;44:452-453, 459.

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